Commercial FERTILIZERS

Report for 1962

H. J. FISHER
Chief Chemist

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REPORT ON INSPECTION AND ANALYSIS OF COMMERCIAL FERTILIZERS

1962

H. J. Fisher, Chief Chemist[1]

CONNECTICUT LAW AND REGULATIONS REGARDING COMMERCIAL FERTILIZERS

The term "commercial fertilizers", as used in the Connecticut fertilizer statute, includes "any and every substance imported, manufactured, prepared or sold for fertilizing or manuring or soil amendment purposes, except barnyard manure and stable manure which have not been artificially treated or manipulated, marl and lime." An amendment of the law in 1949 permitted fertilizers to be labelled with guaranties of elements other than nitrogen, phosphorus and potassium, but did not change the requirement that mixed fertilizers must contain at least 0.82 per cent of nitrogen, and 1 per cent of either phosphoric acid or potash, for guaranties of these elements to be made. Phosphorus must be declared as available phosphoric acid (except in the case of bone, tankage and other natural organic materials, where total phosphoric acid is guaranteed), and potassium as water-soluble potash; all other elements must be guaranteed in terms of percentages of the elements, not as oxides or salts. A registration fee of $10.00, payable annually, is charged for each element guaranteed in each brand of fertilizer; there is also a six cent tonnage tax, payable semiannually.

While manufacturers usually register their own fertilizers, if a retailer sells a fertilizer manufactured by an out-of-state firm, and that firm refuses to register, under the law the retailer is responsible for registration fees and tonnage taxes. The retailer, therefore, should assure himself that the requirements of the law have been met by the manufacturers of the brands which he handles, or himself be prepared to meet all these requirements.

The law exempts from registration, and from other requirements, only: (1) fertilizers passing through the State in transit; (2) fertilizers and fertilizer materials shipped to regular fertilizer factories to be used for manufacturing purposes; and (3) fertilizers and fertilizer chemicals sold to The Connecticut Agricultural Experiment Station for experimental purposes.

Cottonseed, linseed, peanut and soybean oil meals, when sold or used for fertilizer purposes must be registered as fertilizers and the specified

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[1] Analyses were made by Messrs. Richard A. Botsford, Sherman Squires, Werner Mueller and Walter Oliver and Miss Helen Kocaba; inspection and sampling by Mr. R. Richard Nichols; compilations by Mrs. Anthony Montano and Mrs. Marshall S. B. Brown.

fees paid thereon. For such products the registration fee is $10.00 per brand. This fee and the tonnage tax are entirely apart from the registration fee required by the feeding stuffs law for vegetable meals used as feeds (there is no tonnage tax on feeds).

Because manufacturers or jobbers do not know how much, if any, of their vegetable meal tonnage is sold or used as fertilizers, local dealers and purchasers report their sales or purchases to this Station. This information is not for publication but is used to inform manufacturers of the total sales of their meal as fertilizer in this State. It is expected that the fees provided for by statute will be paid by the manufacturer or other party responsible for the brands.

OFFICIAL DEFINITIONS OF FERTILIZER TERMS AND MATERIALS

It is expected that fertilizers sold in this state will comply with the regulations and standards of the Association of American Fertilizer Control Officials. A copy of the "Official Publication" of that Association giving these definitions and regulations may be obtained from the secretary-treasurer, B. D. Cloaninger, Drawer 392, Clemson, South Carolina, for $2.00.

REGISTRATIONS

For 1962, 123 firms and individuals registered 545 brands of fertilizer at this Station for sale in the State. As required by statute, the brands are listed as follows:

A- PENN OIL CO., Butler, Pa.

(Registered by International Minerals & Chemicals Corp., Woburn, Mass.)

Marvel Green Lawn Builder 20-10-5

AGRICULTURAL PRODUCTS CO., INC., West Kingston, R. I.

APCO Ground Bone Meal
Blue Ribbon 5-10-5 Fertilizer Lawn-Garden
Comet Lawn & Garden Fertilizer 5-10-5
Golden Comet 8-6-4 Lawn Food
Guardian 8-6-4 Gro-Green Lawn Fertilizer
Spur Lawn & Garden Fertilizer 5-10-5
Super Turf King 8-6-4
Turf King Lawn & Garden Fertilizer 5-10-5

AGRICULTURAL SUPPLY CO., 221 Richmond Ave., West Haven, Conn.

Yale Special Mixture
Yale Special Mixture with Chlordane

ALASKA FERTILIZER CO., 84 Seneca St., Seattle 1, Wash.

Alaska 100% Organic Deodorized Fish Fertilizer

ALLIED CHEMICAL CORP., Nitrogen Division, P. O. Drawer 61, Hopewell, Va.

"Arcadian" A-N-L Fertilizer Compound
"Arcadian" Golden Uran 30 Solution
"Arcadian" Golden Uran 32 Solution
"Arcadian" Nitrana Solution 2
"Arcadian" Nitrana Solution 3
"Arcadian" Nitrana Solution 4
"Arcadian" Nitrana U Solution
"Arcadian" Nitrate of Soda
"Arcadian" Pelleted Ammonium Nitrate
"Arcadian" Urea 45 Fertilizer Compound (Pelleted)

AMERICAN AGRICULTURAL CHEMICAL CO., 285 River St., North Weymouth 91, Mass.

AA Plant Food 5-10-5
AA Plant Food 10-6-4
AA Quality Fertilizer 0-15-30
AA Quality Fertilizer 0-20-20
AA Quality Fertilizer 0-25-25
AA Quality Fertilizer 5-10-5
AA Quality Fertilizer 8-16-16
AA Quality Fertilizer 10-6-4
AA Quality Fertilizer 10-10-10
AA Quality Fertilizer 15-10-10
AA Quality Fertilizer 5-10-10 with 1.2 Magnesium
Agrico A. C. R. Fertilizer 6-10-4
Agrico Country Club 8-6-4
Agrico Country Club 16-8-8
Agrico Country Club Fertilizer 10-6-4
Agrico Country Club Fertilizer 12-4-8
Agrico Evergreen Fertilizer
Agrico for Corn
Agrico for Gardens 5-10-5
Agrico for Lawns, Trees & Shrubs 6-10-4
Agrico for New England 5-8-7
Agrico for Potatoes 5-10-10 with 1.2 Magnesium
Agrico for Seeding Down 5-20-20
Agrico for Topdressing 7-7-7
Agrico for Topdressing 15-10-10
Agrico for Turf 6-8-2
Agrico Grass Food 10-6-4

AMERICAN AGRICULTURAL CHEMICAL CO., 285 River St., North Weymouth 91, Mass. - Cont.

Agrico House Plant Food 17-17-17
Agrico Insect Control with Fertilizer
Agrico Phosphate & Potash 0-15-30
Agrico Phosphate & Potash 0-20-20
Agrico Rose Food 5-9-6
Agrico Tonic for Lawns
Agrico Water Soluble Plant Food
Agrico Weed Control with Fertilizer
Agrinite
Agri-Phos 20% Superphosphate
Ground Phosphate Rock
Homestead Farm Style Multi-Purpose Fertilizer 5-10-5
Superphosphate, 18% Normal

AMERICAN CYANAMID CO., P. O. Box 400, Princeton, N. J.

AERO Cyanamid, Granular
AERO-PHOS 18-46-0 Diammonium Phosphate
AERO Phosphoric Acid
AEROPRILLS, Ammonium Nitrate Fertilizer
AERO Urea Coated Prills
Amanol Solutions
Trebo-Phos Triple Superphosphate

AMERICAN HUMATES, INC., Fidelity Union Tower, Dallas 1, Tex.

Aqua Humus

ARMOUR AGRICULTURAL CHEMICAL CO., Box 10, Carteret, N. J.

Armour Armorganic Plant Food
Armour Big Crop Fertilizer 0-20-20
Armour Big Crop Fertilizer 5-8-7
Armour Big Crop Fertilizer 5-10-5
Armour Big Crop Fertilizer 5-10-10
Armour Big Crop Fertilizer 7-7-7
Armour Big Crop Fertilizer 10-10-10
Armour Big Crop Superphosphate
Armour Bone Meal Fertilizer
Armour Cattle Manure
Armour Gold Bond Tobacco Grower
Armour Home & Garden Special 5-10-5
Armour Lawn Special 10-6-4
Armour Lightweight Vertagreen Lawn Fertilizer 20-10-10
Armour Sheep Manure
Armour Vertagreen for Acid-Loving Plants 5-10-10
Armour Vertagreen Lawn Food 6-10-4 (25% Organic Nitrogen)
Armour Vertagreen 10-6-4 for Turf (60% Organic Nitrogen)

ARMOUR AGRICULTURAL CHEMICAL CO., Box 10, Carteret, N. J. - Cont.

Armour Vertagreen Plant Food 5-10-5 with 2,4-D Weed Killer
Armour Vertagreen Plant Food for Commercial Crops 6-12-12
Armour Vertagreen Plant Food for Commercial Crops Tobacco Special 6-4-7
Armour Vertagreen Plant Food for Lawns & Gardens 5-10-5
Armour Vertagreen Plant Food for Turf & Trees 10-6-4
Armour Vertagreen Rose Food 5-10-5
Armour Vertagreen Turf Food with Chlordane
Armour Vertagreen Turf Formula 8-6-2 (50% Organic Nitrogen)

ASGROW SEED CO., 272 George St., New Haven, Conn.

Gro-Sod Lawn Food
Timberturf
Weed-Nix Lawn Food

H. J. BAKER & BROS., INC., 733 Third Ave., New York 17, N. Y.

Cobelaz Urea

BAKER CASTOR OIL CO., 40 Avenue A, Bayonne, N. J.

(Registered by Hubbard-Hall Chemical Co., Waterbury, Conn.)

Baker's Castor Pomace

F. A. BARTLETT TREE EXPERT CO., 2770 Summer St., Stamford, Conn.

Bartlett Green Tree Food

BAUGH CHEMICAL CO., 25 S. Calvert St., Baltimore 2, Md.

Ground Undissolved Phosphate Rock

BELMONT FEED CO., Cos-Cob, Conn.

Belmont's Cottonseed Meal 41%

BLACKSTONE GUANO CO., INC., 2000 Chesapeake Ave., Baltimore 26, Md.

Blackstone Fair Lawn 50% Organic
Blackstone Fair Lawn 20-10-5
Blackstone Ranch Home

THE BORDEN CO., Chemical Div., 350 Madison Ave., New York 17, N.Y.

Borden's "38"

JOSEPH BRECK & SONS, 401 Summer St., Boston 10, Mass.

Breck's Feed No Weed with 2,4-D plus 2,4,5-T
Breck's Garden-Gro
Breck's Greenite (all organic)
Breck's New Improved Turf-Gro
Breck's Quick Life
Breck's Turf-Gro

BROOKSIDE NURSERIES, INC., 228 Brookside Rd., Darien, Conn.

Brookside's Bone Meal
Brookside's Horn Shavings & Meal
Brookside's Natures Evergreen
Brookside's Natures Nutrients
Brookside's Natures Thrift Food

W. ATLEE BURPEE CO., 18th & Hunting Park Ave., Philadelphia, Pa.

Burpee Lawn Food 20-10-5

CADWELL & JONES, INC., 199 Walnut St., Hartford, Conn.

C & J Hi Organic Fertilizer 10-6-4
C & J Lawn Food with Weed Killer
C & J Plant Food 5-10-5

CALIFORNIA CHEMICAL CO., Ortho Div., Lucas and Ortho Way, Richmond 4, Cal.

Ortho-Gro Liquid Plant Food 10-5-5
Ortho-Gro Liquid Plant Food 15-5-5
Ortho Liquid Evergreen & Azalea Food 10-8-7
Ortho Liquid Rose Food 8-12-4
Ortho 18-46-0 Pelleted Fertilizer
Ortho Prilled Ammonium Nitrate Fertilizer
Ortho Triple Superphosphate
Ortho Unipel 10-20-20 Pelleted Fertilizer
Ortho Unipel 14-14-14 Pelleted Fertilizer
Ortho Unipel 16-48-9 Pelleted Fertilizer
Ortho Unipel 20-10-10 Pelleted Fertilizer
Ortho Unipel 20-20-0 Pelleted Fertilizer
Ortho Unipel 22-22-0 Pelleted Fertilizer

CARBOLA CHEMICAL CO., INC., Natural Bridge, N. Y.

Carbola CCC Triple 20 Plant Food

CARGILL, INC., 200 Grain Exchange Bldg., Minneapolis, Minn.

Cargill 44% Protein Soybean Meal Solvent Extracted

PETER CASCIO NURSERY, INC., 2600 Albany Ave., West Hartford, Conn.

Cascio's High Organic 10-6-4 Lawn Food
Cascio's Organite
Cascio's Professional 5-10-5 Lawn Food

CENTRAL SOYA, Fort Wayne, Ind.

Forty Four 44% Solvent Extracted Soybean Meal

CHILEAN NITRATE SALES CORP., 120 Broadway, New York 5, N.Y.

Chilean Nitrate of Soda - Champion Brand
Chilean Nitrate of Soda-Potash - Champion Brand

CLORO-SPRAY CORP., 2215 N. American St., Philadelphia 33, Pa.

Cloro-Spray
Fairway-Spray 15-10-5

COCKE & CO., 208 William Oliver Bldg., Atlanta 3, Ga.

Cocke-Sure Brand Prime Quality 41% Protein Cottonseed Meal

CONSOLIDATED RENDERING CO., 178 Atlantic Ave., Boston 10, Mass.

Corenco 0-15-30
Corenco 0-20-20
Corenco 5-8-7
Corenco 5-10-5
Corenco 5-10-5 Home Garden & Lawn Starter
Corenco 5-10-5 Rose Special
Corenco 5-10-10 Liquid Fertilizer Concentrate
Corenco 5-10-10
Corenco 5-10-10 1.2 mag.
Corenco 6-3-6 Perfection Tobacco Grower
Corenco 6-3-6 Premium Tobacco Grower
Corenco 6-8-8 1.2 mag.
Corenco 7-7-7
Corenco 7-7-7 Rhododendron
Corenco 8-6-4 Landscape
Corenco 8-6-4 Turf Green
Corenco 8-12-12 .9 mag.
Corenco 8-16-16
Corenco 10-5-5 Liquid Green
Corenco 10-6-4 Golf & Lawn

CONSOLIDATE RENDERING CO., 178 Atlantic Ave., Boston 10, Mass. - Cont.

Corenco 10-10-10
Corenco 15-10-10
Corenco Ground Bone
Corenco Muriate of Potash
Corenco Organic Turf Fertilizer
Corenco Sheep Manure with Inert Matter
Corenco Spurz-On
Corenco Sulphate of Ammonia
Corenco Sulphate of Potash
Corenco Superphosphate 20%
Corenco Timberline 10-8-2
Corenco Turf Green 8-6-4 with Chlordane
Cottonseed Meal

THE DAVEY TREE EXPERT CO., 117 S. Water St., Kent, Ohio

Davey Shredded Cattle Manure
Davey Tree Food

DAVISON CHEMICAL CO., Div. W. R. Grace & Co., Hill Plant, Baltimore 26, Md.

0-15-30 Davco Granulated Fertilizer
0-20-20 Davco Granulated Fertilizer
5-10-5 Davco Granulated Garden Food
5-10-10 Davco Granulated 3G Fertilizer
8-16-16 Davco Granulated 3G Fertilizer
10-6-4 Davco Granulated 3-G Fertilizer
10-10-10 Davco Granulated 3G Fertilizer
15-10-10 Davco Granulated 3G Fertilizer
Davco Granulated 20% Superphosphate
Wonder Gro Lawn & Ornamental Plant Food 20-10-5

DAYTON FERTILIZER CORP., Georges Rd., Dayton, N. J.

Grand Garden Fertilizer 6-10-4
Grand Lawn Fertilizer 10-6-4 40% Organic
Grand Lawn Lightweight Fertilizer 15-7-5
Lawn Treat 5-10-5

THE DOUGHTON SEED CO., 253 Brunswick St., Jersey City 2, N. J.

Doughten's Allganic 4-6-2
Doughten's Lawn Food 9-8-3

E. I. du PONT de NEMOURS & CO., 6054 du Pont Bldg., Wilmington, Del.

Du Pont Nu Green Urea Fertilizer
Du Pont Rose Food 8-8-8
Du Pont Soluble Plant Food 19-22-16

E. I. du PONT de NEMOURS & CO., 6054 du Pont Bldg., Wilmington, Del. - cont.

Du Pont Turf Food 20-10-10
Du Pont Turf Food 20-10-10 with 2, 4-D Weed Killer
Du Pont Uramite Ureaform Fertilizer
Du Pont Uramite M Ureaform Fertilizer
Du Pont Urea Nitrogen Fertilizer

EASTERN DEHYDRATING CO., Route 7, Lexington, N. C.

Dehydrated Sheep Manure
Fertal-Gro (Dehydrated Cow Manure)

EASTERN STATES FARMERS' EXCHANGE, INC., 26 Central St., West Springfield, Mass.

Eastern States 0-10-30 W/B
Eastern States 0-10-30 W/B with 0.3% Heptachlor
Eastern States 0-25-25
Eastern States 5-10-10
Eastern States 8-16-16
Eastern States 10-10-10 with .6 Magnesium
Eastern States 10-10-10- LC with 1.2 Magnesium
Eastern States 10-15-15 with 1.2 Magnesium
Eastern States 10-15-15 LC with 1.2 Magnesium
Eastern States 10-20-10 with .6 Magnesium
Eastern States 10-20-20
Eastern States 15-10-10
Eastern States 15-15-15
Eastern States Green Lawn 10-5-5
Eastern States Green Lawn with Dacthal
Eastern States Lawn Special 10-6-4
Eastern States Muriate of Potash 60%
Eastern States Start-N-Gro
Eastern States Sulfate of Ammonia
Eastern States 20% Superphosphate

EASTMAN GELATINE CORP., 227 Washington St., Peabody, Mass.

Dicalcium Phosphate

EDGEWOOD FARMS, INC., Marysville, Ohio

Edgewood Farms Boost
Edgewood Farms Rose Food

THE ESPOMA CO., P. O. Box 431, Millville, N. J.

Bulb-Tone
Espoma Organic 3-2-1
Espoma Rose Food
Garden Tone
Holly-Tone
Turf-Tone 10-6-4

FAESY & BESTHOFF, INC., 25 East 26th St., New York 10, N. Y.

F & B All Purpose Pelletized 10-6-4
F & B Azalea-Camellia-Rhododendron Food
F & B Cottonseed Meal
F & B Evergreen Food 7-7-7
F & B Garden Food
F & B Pure Steamed Bone Meal
F & B Rose Food

FEDERAL CHEMICAL CO., Bennett & Clayton Div., Prospect Plains, Cranbury, N. J.

General Green 20-10-5
Lawn & Garden 5-10-5
Lawn & Garden 10-6-4
Lawn & Garden 50% Organic Nitrogen
Lawn Life
New Garden Crest Lawn & Garden Fertilizer 5-10-5
New Garden Crest Lawn & Garden Fertilizer 10-6-4
New Garden Crest Lawn & Garden Fertilizer (25% Organic Nitrogen)
Princeton Park 5-10-5 Lawn & Garden Fertilizer
Rose Food

FIRST NATIONAL STORES, INC., East Hartford, Conn.

(Registered by Hubbard-Hall Chemical Co., Waterbury, Conn.)

Emerald Green Evergreen Food
Emerald Green Lawn Food
Emerald Green Plant Food
Emerald Green Rose Food

THE GARDEN CENTER, INC., 53 LaSalle Rd., West Hartford, Conn.

The Garden Center Lawn Food 10-6-4

GEIGY AGRICULTURAL CHEMICALS, Saw Mill River Rd., Ardsley, N. Y.

Sequestrene 138 Fe Iron Chelate
Sequestrene 330 Fe Iron Chelate
Sequestrene Na_2Cu Copper Chelate
Sequestrene NaFe Iron Chelate
Sequestrene Na_2Mn Manganese Chelate
Sequestrene Na_2Zn Zinc Chelate

GLEN TERRACE NURSERIES, INC., 1960 Whitney Ave., Hamden, Conn.

Glen Terrace Lawn Food

GLORION DIVISION, Aluminum & Chemical Corp., Greenwich, Conn.

Glorion

GLOUCESTER BY PRODUCTS, INC., Gloucester, Mass.

Globpro Brand 60% Protein Fish Meal

GODFREY'S GARDEN SHOP, 1630 Post Rd., Fairfield, Conn.

Godfrey's Lawn & Tree Food

GOLDENROD OIL MEAL SALES CO., 727 Beale St., Memphis, Tenn.

Goldenrod Brand 41% Protein Cottonseed Meal

GOULARD & OLENA, INC., Skillman, N. J.

G & O Blue Ribbon for Fine Lawns, Flowers, Shrubs & Vegetables
G & O Bone Meal
G & O Bulb Food
G & O Evergreen Food
G & O Green Ribbon 10-6-4
G & O Hyganic Lawn Food 10-6-4
G & O Light Fantastic Lawn Food 20-6-4
G & O Plant Food for Acid Loving Plants
G & O Prizegro for Gardens
G & O Raw Ground Bone
G & O Rose Food
G & O Tomato Food
G & O Turf Food & Insecticide 10-6-4 with Chlordane
Goulard's Formula 8-15-5

W. R. GRACE & CO., Nitrogen Products Div., 147 Jefferson Ave., Memphis 3, Tenn.

Grace Urea Prills
Grace Urea Prills - 46

GREENLIFE PRODUCTS CO., West Point, Va.

Greenlife Plant Food

GREEN RIBBON PRODUCTS CO., Sackett Point Rd., North Haven, Conn.

Green Ribbon All Purpose Plant Food 5-10-5
Green Ribbon Lawn Food 10-6-4

HALSTEAD DISTRIBUTING CORP., Sutons La., Mt. Kisco, N. Y.

Just Right 5-10-5
Just Right 10-6-4

THE CHARLES C. HART SEED CO., 304 Main St., Wethersfield, Conn.

Deane's Formula 22-35X
Hart's All Organic
Hart's All Purpose Plant Food
Hart's Crabgrass Seed Killer & Lawn Fertilizer
Hart's Rose Food
Hart's Turf Food
Hart's Two-For-One

HAYNIE PRODUCTS, INC., 108 East York St., Baltimore 30, Md.

Hi-Seas Menhaden Fish Meal with Butylated Hydroxy Toluene

HERCULES POWDER CO., Hercules Tower, 90 Market St., Wilmington 99, Del.

Hercules-Nitroform

HERSHEY ESTATES, INC., Hershey, Pa.

Ko-K-O Meal

A. H. HOFFMAN, INC., Landisville, Pa.

Hoffman Cow Manure (Dehydrated)
Hoffman Sheep Manure (Dehydrated)
Hoffman 2-17-0 Sterilized Bone Meal

HOLDRIDGE FARM NURSERY, Route 27, R. D. 4, Ledyard, Conn.

(Registered by Goulard & Olena, Inc., Skillman, N. J.)

Holdridge 20-6-4 Turf Food

THE HUBBARD-HALL CHEMICAL CO., 28 Benedict St., Waterbury, Conn.

Castor Pomace
Cotton Hull Ashes
Domestic Precipitated Bone
Dry Ground Fish
Green Gro Lawn Fertilizer 6-7-4
HH Blade Lawn Food with Urea-Form
HH Bone Meal 2-23%
HH Bulb Food
HH Cow Manure
HH Evergreen Food 4-10-4
HH Gro-Fast Sol Water Soluble Concentrate 16-20-16
HH Gro Mor Garden Fertilizer

THE HUBBARD-HALL CHEMICAL CO., 28 Benedict St., Waterbury, Conn. - Cont.

HH Lawn Fertilizer with Chlordane
HH Luxura Lawn Food with Urea-Form
HH Nitroganic
HH Plant Food
HH Rose Food
HH Sheep Manure
HH Turf & Tree Food
HH Weed-Kil Lawn Food with 2, 4-D
Lawn Craft 8-6-4 Turf Food
Lawn Craft 10-6-4 Turf Food
Liberty 18-46-0 Diammonium Phosphate
Liberty Fertilizer 0-15-30
Liberty Fertilizer 0-20-20
Liberty Fertilizer 0-25-25
Liberty Fertilizer 5-8-7
Liberty Fertilizer 5-10-5
Liberty Fertilizer 5-10-10
Liberty Fertilizer 5-10-10 with 8 lbs. of Actual Aldrin per ton
Liberty Fertilizer 5-10-10 1.2 mag.
Liberty Fertilizer 6-8-8 1.2 mag.
Liberty Fertilizer 7-7-7
Liberty Fertilizer 8-12-12 1.2 mag.
Liberty Fertilizer 8-16-16
Liberty Fertilizer 10-6-4
Liberty Fertilizer 10-10-10
Liberty Fertilizer 15-10-10
Liberty Fertilizer 15-15-15
Liberty Fertilizer 16-8-16
Liberty Super Corn 10-10-10
Liberty Super Gro 5-10-10 1.2 mag.
Liberty Super Gro 8-16-16
Liberty Super Spud 6-8-8 1.2 mag.
Liberty Super Spud 8-10-10 1.2 mag.
Liberty Super Spud "500" 5-8-8 1.2 mag.
Liberty Super Tobacco Fertilizer 6-4-7 1.2 mag.
Liberty Tobacco Fertilizer 6-3-6
Liberty Triple Superphosphate
Muriate of Potash
Nitrate of Potash
Sulphate of Potash
Superphosphate, 20%
Urea 46%
Woodruff's Lawn & Tree Food

INTERNATIONAL MINERALS & CHEMICAL CORP., 316 New Boston St., Woburn, Mass.

Fertilis All Purpose Plant Food 5-10-5
Sul-Po-Mag

SPENCER KELLOGG AND SONS, INC., 120 Delaware Ave., Buffalo, N. Y.

Spencer Kellogg's 32% Protein Old Process (Expeller) Linseed Meal

KEN-BRIS FARMS, INC., 701 South Front St., Philadelphia 47, Pa.

Society Hill Lawn Feeder
Society Hill Weeder-Feeder

LAWN & GRASS SEEDS, INC., 52 Leslie St., Buffalo 10, N. Y.

Fabulawn Brand Lawn Fertilizer
Fabulawn Brand Weed & Feed

LAWN-TEX, INC., 1640 W. Fulton St., Chicago, Ill.

Organi-Green

LEBANON CHEMICAL CORP., P. O. Box 532, Lebanon, Pa.

Granulated 20% Superphosphate
Lebanon Azalea & Evergreen Fertilizer with Chelated Iron
Lebanon Azalea Food
Lebanon Bone Meal
Lebanon Cow Manure
Lebanon Crab Seed Killer & Lawn Fertilizer 10-6-4
Lebanon Fertilizer 5-10-10
Lebanon Hi-Organic
Lebanon Plant Food
Lebanon Rose Food
Lebanon Sheep Manure
Lebanon Truck Crop
Lebanon Turf Organic
Lebanon Uni-Form
Pennsylvania Dutch 5-10-5
Pennsylvania Dutch 10-6-4

LEE PATTEN SEED CO., 360 Ninth St., Jersey City 2, N. J.

Patco's Allganic 4-6-2
Patco's Chek 10-6-4 with Diphenatrile
Patco's Combo with 2, 4-D plus 2, 4, 5-T
Patco's Featherweight (Lawn Food)
Patco Lawn Food 9-8-3

LUZERNE FERTILIZER CO., P. O. Box 74, Nescopeck, Pa.

(Registered by Consolidated Rendering Co., Boston, Mass.)

Luzerne All Purpose Plant Food 5-10-5

McARDLE'S SEED CO., 388 Greenwich Ave., Greenwich, Conn.

McArdle's 10-6-4

McNAIRS FARMS, Fairley St., Laurinburg, N. C.

McNairs' Organure

THE MAMLON CO., P. O. Box 3046, New Haven, Conn.

FER-MEL General Purpose Plant Food
FER-MEL Lawn Food
FER-MEL Water Soluble Turf & Tree Food

MONSANTO CHEMICAL CO., 800 N. Lindbergh Blvd., St. Louis 66, Mo.

Diammonium Phosphate 21-53-0
Monoammonium Phosphate 12-61-0 Fertilizer
Monsanto Ammonia Nitrate Fertilizer
Monsanto Prilled Urea Fertilizer 45-0-0

NATURAL DEVELOPMENT CO., Perry Hall, Md.

Fertrell, Blue Label
Fertrell, Gold Label
Fertrell, Super
Fertrell, Super "N"

NATURAL PLANT FOOD CO., 1409 N. W. 50th St., Oklahoma City, Okla.

Longhorn Brand Cattle Manure
Ramshorn Brand Sheep Manure

OLD FOX AGRICULTURAL SALES, INC., 66 Valley St., East Providence, R. I.

Green Lawn
Old Fox Brand Acid Soils
Old Fox Brand 0-15-30
Old Fox Brand 0-20-0 (Superphosphate)
Old Fox Brand 0-20-20
Old Fox Brand 4-16-20
Old Fox Brand 5-10-5
Old Fox Brand 5-10-10
Old Fox Brand 5-10-10 1.2 mag.
Old Fox Brand 6-3-6
Old Fox Brand 6-3-6 1.2 mag.
Old Fox Brand 6-8-8 1.2 mag.
Old Fox Brand 6-10-10 1.2 mag.
Old Fox Brand 7-7-7
Old Fox Brand 8-6-2

OLD FOX AGRICULTURAL SALES, INC., 66 Valley St., East Providence, R. I.

Old Fox Brand 8-10-10 1.2 Mag.
Old Fox Brand 8-16-16
Old Fox Brand 10-6-4
Old Fox Brand 10-10-10
Old Fox Brand 15-10-10
Old Fox Brand No Pest
Old Fox Brand Rose Food
Old Fox Organo
Steamed Bone Meal

OLIN MATHIESON CHEMICAL CORP., P. O. Box 991, Little Rock, Ark.

Ammo-Phos
Mathieson 5-10-5
Mathieson 5-10-10
Mathieson Pilletized Urea Fertilizer 45%

ORGANIC COMPOST CORPORATION OF PENNSYLVANIA, P.O. Box 261, Oxford, Pa.

Fertie Cattle Manure Compost
Fertie Sheep Manure Compost
Gardener's Cow Manure Compost
Gardener's Sheep Manure Compost

PAX COMPANY, P. O. Box 2310, Salt Lake City 10, Utah

New Pax Crabgrass and Soil Pest Control
PAX Pride
PAX Snap Bak (for lawns only)

JOHN J. PEPIN & CO., 314 Cotton Exchange Bldg., Memphis, Tenn.

"Pepco Brand" 41% Protein Cottonseed Meal Prime Quality

PERK-UP PRODUCTS CO., South Deerfield, Mass.

Perk-up Lawn Food 10-6-4
Perk-up Plant Food 5-10-5

ROBERT B. PETERS CO., 2833 Pennsylvania St., Allentown, Pa.

Peters Special 13-6-6
Peters Special 20-5-30
Peters Special 20-20-20
Peters Special 25-10-10

PLANTERS OIL MILL, Tunica, Miss.

41% Protein Cottonseed Meal Prime Quality

PRIDE OF THE VALLEY MILLS, Vernon, N. J.

Fiestar

RA-PID-GRO CORP., 88 Ossian St., Dansville, N. Y.

Ra-Pid-Gro

RENZULLI BROS. GARDEN CENTER, 297 Westport Ave., Norwalk, Conn.

(Registered by Goulard & Olena, Inc., Skillman, N. J.

Renzulli Bros. Lawn Food

ST. LOUIS NATIONAL STOCKYARDS CO., Exchange Bldg., National Stock Yards, Ill.

Wizard Brand Cow Manure
Wizard Brand Sheep Manure

O. M. SCOTT & SONS CO., Marysville, Ohio

Bonus
Dawn
Turf Builder

SEABOARD SEED CO., 701 S. Front St., Philadelphia 47, Pa.

Seaboard's Complete Lawn & Plant Food
Seaboard's Hi-Acid Plant Food 8-14-6
Seaboard's Lawn Feeding Weed Killer

SEARS, ROEBUCK & CO., 925 S. Homan Ave., D/671, Chicago 7, Ill.

Cross Country Azalea Food
Cross Country Bone Meal
Cross Country Bulb Food
Cross Country Crabgrass Plant Killer with Lawn Food
Cross Country Economy Fertilizer
Cross Country Evergreen Food
Cross Country Instant Plant Food
Cross Country Instant Rose Food
Cross Country Instant Tomato Food
Cross Country Lawn Food
Cross Country Lawn Quick Green 10-6-4
Cross Country Liquid Plant Food
Cross Country Merion Bluegrass Lawn Food
Cross Country Organic Cattle Manure Compost
Cross Country Organic Sheep Manure Compost
Cross Country Plant Food
Cross Country Rose Food
Cross Country Sulfate of Ammonia
Cross Country Superfine Lawn Food

SEARS, ROEBUCK & CO., 925 S. Homan Ave., D/671, Chicago 7, Ill. - Cont.

Cross Country Weed Killer with Lawn Food

SEWERAGE COMMISSION OF THE CITY OF MILWAUKEE, P. O. Box 2079, Milwaukee 1, Wis.

Milorganite (50 lb. bag size)
Milorganite Plus 2,4-D

THE SHERWIN-WILLIAMS CO., 101 Prospect Ave., N. W., Cleveland, Ohio

Sherwin-Williams 34% Linseed Oil Meal (Solvent Extr.)

M. L. SHOEMAKER, Div. Wilson & Co., Delaware & Venango Sts., Philadelphia, Pa.

M. L. Shoemaker's "Swift-Sure"

THE SOUTHERN COTTON OIL CO., Div. Hunt Foods & Industries, Inc., 738 West Union St., Greenville, Miss.

Sco-Co 41% Protein Cottonseed Meal

THE STANFORD SEED CO., 560 Fulton St., Buffalo, N. Y.

Stanford Lawn & Plant Food 20-10-5
Stanford Weed & Feed 10-6-4 plus 1% 2,4-D

STERN'S GARDEN PRODUCTS, INC., 404 William St., Geneva, N. Y.

Miracid
Miracle-Gro
Miracle-Gro for Roses

STIM-U-PLANT LABORATORIES, INC., 2077 Parkwood Ave., Columbus 19, Ohio

Stim-U-Plant 5-8-7
Stim-U-Plant 11-12-15

STOP & SHOP, INC., West Hartford, Conn.

Green Carpet Lawn Food 12-5-7
Green Carpet Plant Food 8-12-6

SWIFT & CO., Agrichem Division, P. O. Box 1404, New Haven 5, Conn.

All Purpose Vigoro
Golden Rod

SWIFT & CO., Agrichem Division, P. O. Box 1404, New Haven 5, Conn. - Cont.

Golden Vigoro
Golden Vigoro with End-O-Pest
Instant Vigoro
Instant Vigoro Rose Food
Par-Ex
Pink Vigoro
Vigoro Bulb Food
Vigoro Evergreen Food
Vigoro for Azaleas & Camellias
Vigoro Rose Food
Vitogro
Vitogro Lawn Pest Control & Plant Food
Vitogro Lawn Weeder & Feeder

SWISS FARMS, Philmont, N. Y.

African Violet Food
Plantdrops Liquid
Plant Food 6-15-11
Rose Food 6-15-11

THOMPSONVILLE GARDEN CENTER, 787 Enfield St., Thompsonville, Conn.

(Registered by Goulard & Olena, Inc., Skillman, N. J.)

Thompsonville Garden Center 5-10-5
Thompsonville Garden Center 20-6-4

TOWN & COUNTRY PRODUCTS, 1072 West Side Ave., Jersey City, N. J.

Green Pride Lawn & Plant Food

U. S. BORAX & CHEMICAL CORP., Weed Control Dept., 630 S. Shatto Pl., Los Angeles 14, Cal.

(Registered by Eastern States Farmers' Exchange, Inc., West Springfield, Mass.)

20 Mule Team Fertilizer Borate-46 (coarse mesh)

U. S. PHOSPHORIC PRODUCTS, Div. Tennessee Corp., P. O. Box 3269, Tampa 1, Fla.

Tencor Triple "46" Granulated Triple Superphosphate

UNITED STATES STEEL CORP., 525 William Penn Pl., Pittsburgh 30, Pa.

USS Ammonium Sulfate

UNIVERSAL CHEMICAL CO., INC., West Lynn, Mass.

Electra Plant Food 5-10-3

VALLEY FEED & SUPPLY CO., INC., Union Rd., Spring Valley, N. Y.

Adorna 3-1-1
Adorna Azalea Food 6-10-5
Adorna Tree Food 8-7-7

VAUGHAN'S SEED CO., 85 White St., New York 13, N. Y.

Vaughan's One Shot Lawn Food

WALGREN TREE EXPERTS, INC., West Hartford, Conn.

Walgren Tree Food 8-6-2

WALKER-GORDON LABORATORY CO., Plainsboro, N. J.

Bovert
Bovung

OSCAR F. WARNER, 24 E. Aurora St., Waterbury, Conn.

Warner's Grubedizer 8-6-4
Warner's Lawn Food
Warner's Tree Food 12-6-4

THE WELLES CO., Box 828, Wake Forest, N. C.

Organic Granules

WESSEL, DUVAL & CO., INC., New York, N. Y.

(Registered by Eastern States Farmer's Exchange, Inc., West Springfield, Mass.)

Wedco Fertilizer Bone Meal

WESTERN AUTO SUPPLY, Kansas City, Mo.

(Registered by L. Teweles Seed Co., Milwaukee 1, Wis.)

Western Auto Revelation 20-10-5

WHITNEY SEED CO., INC., 599-601 Perry St., Buffalo 5, N. Y.

Whitney's Vital Brand Lawn Fertilizer 20-10-5
Whitney's Vital Brand Weed and Feed

GARFIELD WILLIAMSON, INC., 1072 West Side Ave., Jersey City, N. J.

Plantspur
Wonderlawn Lawn Food
Wonderlawn 100% Organic Nitrogen

ANDREW WILSON, INC., Baltusrol Way, Springfield, N. J.

Wilson's Eureka Plant Food

WIRTHMORE STORES, INC., Waltham, Mass.

(Registered by Consolidated Rendering Co., Boston, Mass.)

Organo 10-5-5

S. D. WOODRUFF & SONS OF WETHERSFIELD, INC., 304 Main St., Wethersfield, Conn.

Woodruff's Tuf Turf Lawn Fertilizer 20-10-5
Woodruff's Tuf Turf Turf Food
Woodruff's Tuf Turf Two-For-One

YAZOO VALLEY OIL MILL, INC., Greenwood, Miss.

41% Solvent Extracted Cottonseed Meal Prime Quality

ZEP MANUFACTURING CORP., Div. of National Linen Service Corp., 1310 Seaboard Industrial Blvd., N. W., Box 2015, Atlanta 1, Ga.

Zep Liquid Plant Food

FERTILIZER INSPECTION FOR 1962

The Connecticut fertilizer law does not provide for compulsory limitation of the grades of fertilizer that may be sold in this State, but because it is generally agreed that a small number of grades can take care of all the needs of agriculture, and that standardization on a few grades will promote economy of manufacture and consequent lower prices, the New England agronomists have from time to time compiled lists of recommended fertilizer ratios and minimum grades.

The latest list of ratios, as finally approved at a meeting in Burlington, Vermont on June 19, 1961, and the most common market grades, are as follows:

Ratio	Most Common Grade
0-1-1	0-20-20
0-1-2	0-15-30
0-1-3	0-10-30
0-1-4	0-10-40
0-3-1	0-30-10
1-1-1	10-10-10
1-2-2	5-10-10
1-4-2	3-12- 6
2-1-1	10- 5- 5
2-1-2	6- 3- 6
2-3-3	8-12-12
3-2-2	15-10-10
3-4-4	6- 8- 8
4-2-3	16- 8-12
4-3-1	8- 6- 2

Seventy per cent of the mixed fertilizers sold in this State during the 1961-1962 season were of the recommended ratios in grades whose plant food content equalled or exceeded the "most common grades" listed above. Another 18 per cent were concentrated in the four grades 5-10-5, 8-6-4, 8-10-10 and 10-6-4, of which one was on the previous recommended list.

During the past season the Station agent collected samples of all registered brands that could be found on the market. The total number of official samples was 546.

The following tabulation lists the number of samples analyzed (both official and unofficial) of each class of fertilizer, as well as the tonnage sold during the period between July 1, 1961 and June 30, 1962:

CLASSIFICATION OF FERTILIZER MATERIALS AND FERTILIZER TONNAGE

(Tonnage is for the period of July 1, 1961 to June 30, 1962)

		No. of Samples	Tonnage	
I.	Containing chiefly nitrogen:			
	Nitrate of ammonia	3	347	
	Nitrate of soda	3	262	
	Sulphate of ammonia	4	7	
	Cyanamid	1	116	
	Urea	8	292	
	Nitrogen solutions	-	674	
	Castor pomace	3	864	
	Cottonseed meal	57	4,881	
	Dried blood	1	3	
	Horn and hoof meal	1	2	
	Linseed meal	4	179	
	Soybean meal	3	282	
	Other materials	7	256	
				8,165
II.	Containing chiefly phosphoric acid:			
	Superphosphate 18%	-	66	
	20%	11	3,532	
	46%	3	403	
	Dicalcium phosphate	-	50	
	Precipitated bone	3	243	
	Phosphate rock	2	66	
				4,360
III.	Containing chiefly potash:			
	Muriate of potash	5	287	
	Sulphate of potash	2	142	
	Sulphate of potash-magnesia	1	8	
	Cotton hull ashes	8	337	
				774
IV.	Containing nitrogen and phosphoric acid:			
	Dry ground fish	7	479	
	Bone meal	15	326	
	Diammonium phosphate	1	18	
	Other materials	1	1,090	
				1,913
V.	Containing nitrogen and potash:			
	Nitrate of potash	4	111	
				111
VI.	Mixed fertilizers:			
	Commercial mixtures	384	48,352[1]	
	Special and home mixtures	31	8,308	
				56,660
VII.	Miscellaneous:			
	Borax	1	6	
	Magnesium sulphate	-	13	
	Sheep and cattle manure	18	959	
	Limestone and similar materials	6	-	
	Fertilizer sold in small packages	78	-	
	Other miscellaneous materials	15	-	
	Check meals and fertilizers	34	-	
				978
	Totals	725		72,961

[1] For distribution of this tonnage see next page

MIXED FERTILIZER TONNAGE

Grades Approved for Connecticut

Grade	Tons	Grade	Tons
0-10-30	201	10-15-15	250
0-15-30	2,819	10-20-20	455
0-20-20	394	12-12-12	19
0-25-25	256	13-13-13	26
5-10-10	6,178	14-14-14	6
6- 3- 6	2,239	15-10-10	3,776
6- 8- 8	2,099	15-15-15	688
6-12-12	106	16- 8- 8	54
8- 6- 2	672	16- 8-16	28
8-12-12	200	18-18-18	6
8-16-16	1,928	20-10-10	166
10- 5- 5	1,439	20-20-20	10
10-10-10	9,880	24-12-12	37
		Total	33,932

Other Grades (50 tons or more)

3- 2- 1	52	7- 7- 7	840
4-10- 4	87	8- 6- 4	1,317
4-16-20	204	8-10-10	1,055
5- 4- 0	482	9- 8- 3	68
5- 5- 0	58	10- 6- 4	3,513
5- 8- 7	523	12- 4- 8	80
5- 9- 6	52	12- 5- 7	332
5-10- 5	2,755	20- 6- 4	51
5-20-20	59	20-10- 5	788
6- 8- 6	123	22- 8- 4	129
6-10- 4	778	25-12-10	157
6-10-10	444		
		Total	13,947

(Less than 50 tons)

3- 1- 1	32	7-10- 5	27
3-12-12	15	8- 7- 7	6
4- 6- 2	10	8-12- 6	33
4- 6- 4	41	10- 8- 2	10
4- 6- 6	6	10-20-10	26
4-10- 0	20	12- 4- 4	17
5- 6-15	5	12- 6- 4	11
5- 8- 8	24	15- 5- 5	27
6- 4- 7	25	16- 8- 4	5
6- 6- 8	8	16-11-13	7
6- 7- 4	39	17- 4- 4	12
6-10- 5	6	23-21-17	16
7- 8- 5	5	Other grades	40
		Total	473
		Grand total	48,352

I. Materials Chiefly Valuable for Nitrogen

Analyses of 58 official samples of nitrogenous materials are given in Table 1. Fifty-one of these met their guaranties and seven were deficient. The substandard samples included five cottonseed meals, one sample of dried blood and one of calcium nitrate.

II. Materials Chiefly Valuable for Phosphoric Acid

Analyses of ten official samples of 20 per cent superphosphate and three of the 46 per cent grade, three of precipitated bone and two of phosphate rock, are given in Table 2. All samples except one of 20 per cent superphosphate met their guaranties.

III. Materials Chiefly Valuable for Potash

Six official samples of cotton hull ashes, five of muriate of potash, and one each of sulphate of potash and sulphate of potash-magnesia, were analyzed; results are given in Table 3. All except one sample of muriate of potash met their guaranties.

IV. Materials Supplying Nitrogen and Phosphoric Acid

This group consists chiefly of dry ground fish and bone meal. Guaranties of "available" phosphoric acid are not required of such natural products, and most of them guarantee only total nitrogen and total phosphoric acid. Fifteen official samples of bone meal, six of dry ground fish, and one each of "Milorganite" (a treated sewage sludge) and diammonium phosphate, were analyzed in 1962. All samples were passed except one of bone meal that was deficient in phosphoric acid. Analyses are given in Table 4.

V. Materials Supplying Nitrogen and Potash

Two official samples of nitrate of potash and one of nitrate of soda-potash were analyzed; one of the nitrate of potash samples was deficient in nitrogen. Analyses are given in Table 3.

VI. Mixed Fertilizers

Commercial Mixtures

Analyses of 335 official samples of mixed fertilizers are given in Table 5. Results are summarized as follows:

Total number of samples		335
Samples deficient in:		
one item	83	
two items	6	89
Percentage of samples meeting all guaranties		73
Total guaranties made[1]		984

[1] Three hundred and fourteen samples with three guaranties and twenty-one with two guaranties (guaranties of minor elements not included).

Guaranties not met:		
nitrogen	39	
phosphoric acid	23	
potash	33	95
Percentage met		90

Ninety per cent of all guaranties for major components were substantially met or exceeded.

Thirty samples guaranteed between 0.6 and 2.4 per cent of magnesium (mostly 1.2 per cent) in addition to the major components; all exceeded their guaranties. Three samples declared between 0.075 and 0.15 per cent of iron; analysis showed between 1.38 and 1.94 per cent—values so high as to bear no relation to the guaranties. One sample declared its boron content to be between 0.3 and 0.5 per cent; analysis showed 0.55 per cent.

Special and Home Mixtures

Thirty-one samples of special and home mixtures were analyzed during the year, mostly for tobacco growers. Since the composition of these samples is not of public interest, their analyses are not tabulated in this bulletin.

State Purchases of Fertilizer

Fertilizer materials and mixed goods supplied to State institutions on State purchase orders are regularly included in our annual inspection. Fertilizers so supplied are not exempt from payment of registration fees and tonnage taxes.

Official samples representing State purchases are indicated in the several tables (which do not, however, include samples taken directly by the State Highway Department). They are summarized as follows:

Materials	No. of samples	Reference
Supplying nitrogen	2	Table 1
Supplying phosphoric acid	3	Table 2
Supplying potash	3	Table 3
Supplying nitrogen and phosphoric acid	2	Table 4
Mixed fertilizers	32	Table 5
Total	42	

VII. Miscellaneous

Sheep and cattle manures. Manures must bear guaranties of nitrogen, either total or "available" phosphoric acid, and potash. Of the 18 samples analyzed during the 1961-1962 season, 16 met all guaranties and one each was deficient in nitrogen and potash respectively. Analyses are given in Table 6.

Limestone and similar materials. Because the legal definition of "commercial fertilizers" excludes "marl and lime", no regular inspec-

tion of liming materials is made. Occasional samples of limestone, hydrated lime and gypsum ("land plaster") are analyzed for farmers. Analyses of six such samples are given in Table 8.

Fertilizers sold in small packages. Fertilizers sold only in packages of 10 pounds or less net weight are not required to be registered. As a service to home gardeners, however, such brands of small package fertilizers as come to the attention of our agent are sampled and analyzed. During the 1961-1962 season 78 such samples were analyzed. Sixty-one of these, or 78 per cent met all guaranties, and 93 per cent of the total of 283 guaranties, were met—a higher percentage than that found for fertilizers sold in 100 lb. bags. Analyses are given in Table 7.

Other miscellaneous materials. Sixteen other miscellaneous products were examined; analyses are given in Table 8. This total includes one official sample of borax.

Check meals and fertilizers. Collaboration was continued with the various check analysis programs. Samples analyzed included: Fifteen vegetable meal samples received from the American Oil Chemists' Society; eleven check fertilizers supplied by Law and Company of Atlanta; and eight samples submitted by the Association of Official Agricultural Chemists in connection with a collaborative study of methods.

MAINTENANCE OF GUARANTIES

The maintenance of guaranties as compiled from analyses of ingredient materials and mixed goods (Tables 1-7) is shown in the following tabulation. Deficiencies of 0.1 per cent or less in nitrogen, 0.2 per cent or less in phosphoric acid or potash, and 20 per cent of the claimed value in the case of minor elements, are not counted. The proportion of guaranties substantially met was 93 per cent.

	No. of samples	No. of guaranties	Deficiencies
Nitrate of ammonia	3	3	0
Nitrate of soda	3	3	0
Sulphate of ammonia	4	4	0
Cyanamid	1	1	0
Urea	7	7	0
Castor pomace	3	3	0
Cottonseed meal	21	21	5
Linseed meal	4	4	0
Soybean meal	3	3	0
Miscellaneous nitrogenous materials	9	9	2
Superphosphate	13	13	1
Precipitated bone	3	3	0
Phosphate rock	2	2	0
Muriate of potash	5	5	1
Nitrate of potash	2	4	1
Nitrate of soda-potash	1	3	0
Sulphate of potash	1	1	0
Sulphate of potash-magnesia	1	2	0
Cotton hull ashes	6	6	0
Dry ground fish	6	11	0
Bone Meal	15	30	1

	No. of samples	No. of guaranties	Deficiencies
"Milorganite"	1	2	0
Diammonium phosphate	1	2	0
Mixed fertilizer	335	984	95
Sheep and cattle manure	18	54	2
Small package fertilizers	78	283	21
Totals	546	1,463	129
Per cent guaranties met			93

TABLE 1.

ANALYSES OF MATERIALS SUPPLYING CHIEFLY NITROGEN

Station No.	Manufacturer or jobber and dealer	Per cent nitrogen	
		F	G
	NITRATE OF AMMONIA		
6450	AEROPRILLS. American Cyanamid Co., New York, N.Y. State purchase, Conn. Reformatory, Cheshire.	33.44	33.50
6522	AEROPRILLS. American Cyanamid Co., New York, N.Y. State purchase, Southbury Training School, Southbury.	33.60	33.50
6549	AEROPRILLS. American Cyanamid Co., Princeton, N.J. Sampled at Eastern States Farmers' Exchange, Inc., Bethel.	33.52	33.50
	NITRATE OF SODA		
6193	Chilean Champion Brand. Chilean Nitrate Sales Corp., New York 5, N.Y. Sampled at Amer. Sumatra Tobacco, Bloomfield. Sodium found 26.39%, guaranteed 26.00%.	16.20	16.00
6645	Chilean Champion Brand. Chilean Nitrate Sales Corp., New York 5, N.Y. Sampled at Birchville Garden, Plainville. Sodium found 26.35%, guaranteed 26.00%.	16.04	16.00
6746	Chilean Champion Brand. Chilean Nitrate Sales Corp., New York 5, N.Y. State purchase, Univ. of Conn. (Landscape Dept.), Storrs. Sodium found 26.68%, guaranteed 26.00%.	16.08	16.00
	SULPHATE OF AMMONIA		
6890	Corenco. Consolidated Rendering Co., Boston 10, Mass. Sampled at New Haven Rendering Co., West Haven.	20.56	20.50
6712	Eastern States. Eastern States Farmers' Exchange, Inc., W. Springfield, Mass. Sampled at Eastern States Farmers' Exchange, Inc., Putnam.	20.52	20.50
6691	The Hubbard-Hall Chemical Co., Waterbury, Conn. Sampled at A.N. Pierson, Inc., Cromwell.	20.56	20.00

TABLE 1.

ANALYSES OF MATERIALS SUPPLYING CHIEFLY NITROGEN

Station No.	Manufacturer or jobber and dealer	Per cent nitrogen	
		F	G
6635	USS. United States Steel Corp., Pittsburgh, Pa. Sampled at Cadwell & Jones, Inc., Hartford.	21.04	21.00
	CYANAMID		
6930	AERO Cyanamid Granular. American Cyanamid Co. (Agr. Div.), Princeton, N.J. Sampled at Walter W. Simmons & Son, Inc., Granby.	21.12	21.00
	UREA		
6319	AERO Urea Prilled. American Cyanamide Co., New York, N.Y. Sampled at Eastern States Farmers' Exchange, Inc., Willimantic.	45.56	45.00
6259	Baker. Dist. by H. J. Baker & Bros., Inc., New York, N.Y. Sampled at The Hubbard-Hall Chemical Co., North Haven.	46.24	46.00
6810	Du Pont Uramite. E. I. du Pont de Nemours & Co., Wilmington 45, Del. Sampled at A. N. Pierson, Inc., Cromwell.	38.08	38.00
6749	Grace Urea Prills. W. R. Grace & Co., Nitrogen Prod. Div., Memphis 3, Tenn. Sampled at Check-R-Board Feed Store, New Milford.	45.60	45.00
6371	Mathieson Pelletized. Olin Mathieson Chemical Corp., Little Rock, Ark. Sampled at Old Fox Agricultural Sales, Inc., Hazardville.	45.92	45.00
6779	Monsanto Urea Prilled. Monsanto Chemical Co., Agr. Chem. Div., St. Louis 66, Mo. Sampled at The Hubbard-Hall Chemical Co., Portland.	45.28	45.00
6286	Bonus. O. M. Scott & Sons, Co., Marysville, Ohio. Sampled at Hamden Garden Center, Hamden.	25.92	25.00

TABLE 1.

ANALYSES OF MATERIALS SUPPLYING CHIEFLY NITROGEN

Station No.	Manufacturer or jobber and dealer	Per Cent nitrogen	
		F	G
	CASTOR POMACE		
6197	The Hubbard Hall Chemical Co., Waterbury, Conn. Sampled at Amer. Sumatra Tobacco Corp., Bloomfield.	5.80	5.00
6198	The Hubbard-Hall Chemical Co., Waterbury, Conn. Sampled at Amer. Sumatra Tobacco Co., Bloomfield.	5.56	5.00
6266	The Hubbard-Hall Chemical Co., Waterbury, Conn. Sampled at Eastern States Farmers' Exchange, Inc., North Haven.	5.28	5.00
	COTTONSEED MEAL		
6493	Belmont's 41%. The Belmont Feed Co., Cos-Cob, Conn. Sampled at Belmont Feed Co., Cos-Cob.	6.56	6.56
6149	Cocke-Sure 41%. Cocke & Co., Atlanta, Ga. Sampled at Hatheway & Steane Corp., West Suffield.	6.48	6.56
6150	Cocke-Sure 41%. Cocke & Co., Atlanta, Ga. Sampled at Hatheway & Steane Corp., West Suffield.	6.44	6.56
6157	Cocke-Sure 41%. Cocke & Co., Atlanta, Ga. Sampled at Hatheway & Steane Corp., West Suffield.	6.36	6.56
6158	Cocke-Sure 41%. Cocke & Co., Atlanta, Ga. Sampled at Hatheway & Steane, Corp., West Suffield.	6.56	6.56
6300	Corenco. Consolidated Rendering Co., Boston 10, Mass. Sampled at A. S. Labieniec, Kensington.	6.52	6.00
6604[1]	F & B. Faesy & Besthoff, Inc., New York, N.Y. Sampled at The Planters Barn, Darien.	6.68	6.00

~~~ Indicates deficiencies.

[1] "Available phosphoric acid: Guaranteed, 1.00%; found. 2.25%. Potash: Guaranteed, 1.00%; found, 1.67%.
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TABLE 1.

ANALYSES OF MATERIALS SUPPLYING CHIEFLY NITROGEN

Station No.	Manufacturer or jobber and dealer	Per cent nitrogen	
		F	G
6839	F & B. Faesy & Besthoff, Inc., New York, N.Y. Sampled at Fairfield Wholesalers, Inc., Fairfield.	6.88	6.56
6169	Golden Rod 41%. Goldenrod Oil Meal Sales, Memphis, Tenn. Sampled at Cullman Bros., Inc., Farm 1, Simsbury.	6.04	6.56
6168	Lovit Brand 41%. L. B. Lovitt & Co., Memphis, Tenn., Sampled at Cullman Bros., Inc., Farm 1, Simsbury.	6.66	6.56
6170	Lovit Brand 41%. L. B. Lovitt & Co., Memphis, Tenn. Sampled at Cullman Bros., Inc., Farm 1, Simsbury.	6.64	6.56
6171	Lovit Brand 41%. L. B. Lovitt & Co., Memphis, Tenn. Sampled at Cullman Bros., Inc., Farm 1, Simsbury.	6.34	6.56
6177	Lovit Brand 41%. L. B. Lovitt & Co., Memphis, Tenn. Sampled at Cullman Bros., Inc., Farm 3, Granby.	6.66	6.56
6178	Lovit Brand 41%. L. B. Lovitt & Co., Memphis, Tenn. Sampled at Cullman Bros., Inc., Farm 3, Granby.	6.63	6.56
6677	Pepco Brand 41%. John J. Pepin & Co., Memphis 3, Tenn. Sampled at Glen Terrace Nurseries, Hamden.	6.52	6.56
6181	Sco-Co 41%. Southern Cotton Oil Division, Hunt Foods & Industries, Inc., Memphis, Tenn. Sampled at The Hartman Tobacco Co., Bloomfield.	6.56	6.56
6182	Sco-Co 41%. Southern Cotton Oil Division, Hunt Foods & Industries, Inc., Memphis, Tenn. Sampled at The Hartman Tobacco Co., Bloomfield.	6.56	6.56
6183	Sco-Co 41%. Southern Cotton Oil Division, Hunt Foods & Industries, Inc., Memphis, Tenn. Sampled at The Hartman Tobacco Co., Bloomfield.	6.90	6.56

~~~ Indicates deficiencies.
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TABLE 1.

ANALYSES OF MATERIALS SUPPLYING CHIEFLY NITROGEN

Station No.	Manufacturer or jobber and dealer	Per cent nitrogen	
		F	G
6184	Sco-Co 41%. Southern Cotton Oil Division, Hunt Foods & Industries, Inc., Memphis, Tenn. Sampled at The Hartman Tobacco Co., Bloomfield.	6.86	6.56
6185	Sco-Co 41%. Southern Cotton Oil Division, Hunt Foods & Industries, Inc., Memphis, Tenn. Sampled at The Hartman Tobacco Co., Bloomfield.	6.68	6.56
7504	41% Solvent Extracted. Yazoo Valley Oil Mill, Inc. Greenwood, Miss. Sampled at Clapboard Hill Feed Co., Inc., New Canaan.	6.32	6.56
	LINSEED OIL MEAL		
6155	Spencer Kellogg 32%. Spencer Kellogg & Sons, Inc., Minneapolis, Minn. Sampled at Hatheway & Steane Corp., West Suffield.	5.76	5.12
6156	Spencer Kellogg 32%. Spencer Kellogg & Sons, Inc., Minneapolis, Minn. Sampled at Hatheway & Steane Corp., West Suffield.	5.92	5.12
6166	Sherwin-Williams 34%. The Sherwin Williams Co., Cleveland, Ohio. Sampled at Cullman Bros., Inc., Farm 1, Simsbury.	5.52	5.44
6179	Sherwin-Williams 34%. The Sherwin Williams Co., Cleveland, Ohio. Sampled at Cullman Bros., Inc., Farm 3, Granby.	5.52	5.44
	SOYBEAN MEAL		
6186	Cargill 44% Solvent Extracted. Cargill, Inc., Minneapolis, Minn. Sampled at The Hartman Tobacco Co., Bloomfield.	7.20	7.04
6191	Cargill 44% Solvent Extracted. Cargill, Inc., Minneapolis, Minn. Sampled at The Hartman Tobacco Co., Bloomfield.	7.12	7.04

~~~ Indicates deficiencies.
~~~

TABLE 1.

ANALYSES OF MATERIALS SUPPLYING CHIEFLY NITROGEN

Station No.	Manufacturer or jobber and dealer	Per cent nitrogen	
		F	G
6192	Cargill 44% Solvent Extracted. Cargill, Inc., Minneapolis, Minn. Sampled at The Hartman Tobacco Co., Bloomfield.	7.28	7.04
6165	Forty Four 44% Solvent Extracted. Central Soya, Fort Wayne, Ind. Sampled at Cullman Bros., Inc., Farm 1, Simsbury.	7.28	7.04
	MISCELLANEOUS		
6417	Agrinite. The American Agricultural Chemical Co., New York, N. Y. Sampled at The Garden Center, Inc., West Hartford.	7.04	7.00
6469	Borden's 38. The Borden Chemical Co., (Div. of Borden Co.) New York 17, N. Y. Sampled at McArdle's Seed Co., Greenwich.	38.48	38.00
6828	Breck's Feed No Weed. Joseph Breck & Sons Corp., Boston 10, Mass. Sampled at Paul M. Hubbard & Co., Bristol.	25.76	25.00
6622	Brookside's Horn Shavings & Meal. Brookside Nurseries, Inc., Darien, Conn. Sampled at Brookside Nurseries, Inc., Darien.	14.88	12.00
6805	Corenco Green-O-ganic. Consolidated Rendering Co., Boston, Mass. Sampled at Comstock Ferre Co., Inc., Wethersfield.	12.00	12.00
6912	Nitroform. Hercules Powder Co., Wilmington 99, Del. Sampled at Old Fox Agricultural Sales, Inc., Hazardville.	38.56	38.00
6809	Blood Tankage. The Hubbard-Hall Chemical Co., Waterbury, Conn. Sampled at A. N. Pierson, Inc., Cromwell.	7.76	16.00

~~~ Indicates deficiencies.
~~~

TABLE 1.

ANALYSES OF MATERIALS SUPPLYING CHIEFLY NITROGEN

Station No.	Manufacturer or jobber and dealer	Per cent nitrogen	
		F	G
6690	Norge Viking Ship Brand Calcium Nitrate. The Hubbard-Hall Chemical Co., Waterbury, Conn. Sampled at A. N. Pierson, Inc., Cromwell.	15.20	15.50
6904	Old Fox Brand Organo. Old Fox Agricultural Sales, Inc., East Providence, R. I. Sampled at Old Fox Agricultural Sales, Inc., Hazardville.	4.92	5.00
6651	New Pax Crabgrass & Soil Pest Control. Pax Company, Salt Lake City, Utah. Sampled at Willis Distributors, Bridgeport.	4.60	4.00

~~~ Indicates deficiencies.
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TABLE 2.

ANALYSES OF SUPERPHOSPHATE, ETC.

Station No.	Manufacturer or jobber and dealer	Per cent phosphoric acid			
		Citrate insoluble	Total	"Available"	
				F	G
	SUPERPHOSPHATE				
6365	Agri-Phos. American Agricultural Chemical Co., New York, N. Y. State purchase, Osborn Prison Farm, Enfield.	0.40	21.20	20.80	20.00
6519	Agri-Phos. American Agricultural Chemical Co., New York, N. Y. State purchase, Southbury Training School, Southbury.	0.20	19.80	19.60	20.00
6595	Agri-Phos. American Agricultural Chemical Co., New York, N. Y. Sampled at Leon Ezzell, Inc., Stamford.	0.75	20.90	20.15	20.00
6652	Corenco 20%. Consolidated Rendering Co., Boston, Mass. Sampled at Libner Grain Co., Inc., Norwalk.	0.45	22.05	21.60	20.00
6736	Corenco 20%. Consolidated Rendering Co., Boston, Mass. State purchase, University of Conn., Farm Dept., Storrs.	0.15	21.40	21.25	20.00
6752	20% Davco Granulated. Davison Chemical Co., Division W. R. Grace & Co., Baltimore, Md. Sampled at Check-R-Board Feed Store, New Milford.	0.95	22.00	21.05	20.00
6268	Eastern States 20% Granulated. Eastern States Farmers Exchange, Inc., West Springfield, Mass. Sampled at Eastern States Farmers Exchange, Inc., North Haven.	0.90	22.35	21.45	20.00

6571	Liberty 20%. The Hubbard-Hall Chemical Co., Waterbury, Conn. Sampled at The Hubbard-Hall Chemical Co., Windsorville.	0.50	22.65	22.15	20.00
6188	Liberty Fertilizer Triple. The Hubbard-Hall Chemical Co., Waterbury, Conn. Sampled at The Hartman Tobacco Co., Bloomfield.	0.90	48.00	47.10	46.00
6625	Granulated 20%. Lebanon Chemical Corp., Lebanon, Pa. Sampled at Cadwell & Jones, Inc., Hartford.	1.30	21.95	20.65	20.00
6373	Old Fox Brand 0-20-0. Old Fox Agricultural Sales, Inc., East Providence, R. I. Sampled at Old Fox Agricultural Sales, Inc., Hazardville.	0.10	21.05	20.95	20.00
6162	Tencor Triple "46" Granulated. U. S. Phosphoric Products Div., Tenn. Corp., Tampa, Fla. Sampled at Cullman Bros., Inc., Farm 1, Simsbury.	1.22	48.80	47.58	46.00
6180	Tencor Triple "46" Granulated. U. S. Phosphoric Products Div., Tenn. Corp., Tampa, Fla. Sampled at Cullman Bros., Inc., Farm 3, Granby.	1.25	48.30	47.05	46.00
	PRECIPITATED BONE PHOSPHATE				
6172	Domestic. The Hubbard-Hall Chemical Co., Waterbury, Conn. Sampled at Cullman Bros., Inc., Farm 1, Simsbury.	0.00	43.80	43.80	42.00
6176	Domestic. The Hubbard-Hall Chemical Co., Waterbury, Conn. Sampled at Cullman Bros., Inc., Farm 3, Granby.	0.00	44.60	44.60	42.00

~~~ Indicates deficiencies.
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TABLE 2.

ANALYSES OF SUPERPHOSPHATE, ETC.

Station No.	Manufacturer or jobber and dealer	Per cent phosphoric acid			
		Citrate insoluble	Total	"Available"	
				F	G
6196	Domestic. The Hubbard-Hall Chemical Co., Waterbury, Conn. Sampled at Amer. Sumatra Corp., Bloomfield.	0.00	45.60	45.60	42.00
	PHOSPHATE ROCK				
6485	AA Quality. The American Agricultural Chemical Co., Pierce, Fla. Sampled at McArdle's Seed Co., Greenwich.	27.85	32.20[1]	4.35	3.00
6766	Ground Undissolved. The Baugh & Sons Co., Baltimore, Md. Sampled at The Hubbard-Hall Chemical Co., Portland.		34.10[2]		

[1] Guaranteed: 31.00%.

[2] Guaranteed: 33.50%.

TABLE 3.

ANALYSES OF POTASH SALTS, ETC.

Station No.	Manufacturer or jobber and dealer	Per cent potash	
		F	G
	MURIATE OF POTASH		
6359	Corenco 60%. Consolidated Rendering Co., Boston 10, Mass. State purchase, Osborn Prison Farm, Enfield.	60.56	60.00
6871	Corenco 60%. Consolidated Rendering Co., Boston 10, Mass. State purchase, Conn. State Farm for Women, Niantic.	60.32	60.00
6711	Eastern States 60%. Eastern States Farmers' Exchange, Inc., West Springfield, Mass. Sampled at Eastern States Farmers' Exchange, Inc., Putnam.	60.80	60.00
6194	Liberty. The Hubbard-Hall Chemical Co., Waterbury, Conn. Sampled at Amer. Sumatra Tobacco Corp., Bloomfield.	61.04	60.00
6781	Liberty. The Hubbard-Hall Chemical Co., Waterbury, Conn. State purchase, Long Lane School, Middletown.	59.24	60.00
	NITRATE OF POTASH		
6152[1]	The Hubbard-Hall Chemical Co., Waterbury, Conn. Sampled at Hatheway & Steane Corp., West Suffield.	45.44	44.00
6689[2]	International Minerals & Chemical Corp., Woburn, Mass. Sampled at A. N. Pierson, Inc., Cromwell.	44.08	44.00
	NITRATE OF SODA-POTASH		
6916[3]	Champion. Chilean Nitrate Sales Corp., New York 5, N.Y. Sampled at The Hubbard-Hall Chemical Co., Windsorville.	14.16	14.00

~~~ Indicates deficiencies.

[1] Nitrogen: Guaranteed, 11.00%; found, 13.52%.

[2] Nitrogen: Guaranteed, 14.00%; found, 13.44%.

[3] Nitrogen: Guaranteed, 15.00%; found, 15.04%.

Sodium: Guaranteed, 18.00%; found, 18.35%.
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TABLE 3.

ANALYSES OF POTASH SALTS, ETC.

Station No.	Manufacturer or jobber and dealer	Per cent potash	
		F	G
	SULPHATE OF POTASH		
6163	The Hubbard-Hall Chemical Co., Waterbury, Conn. Sampled at Cullman Bros., Inc., Farm 1, Simsbury.	49.20	48.00
	SULPHATE OF POTASH AND MAGNESIA		
6189[4]	Sul-Po-Mag. International Minerals & Chemical Corp., Skokie, Ill. Sampled at The Hartman Tobacco Co., Bloomfield.	22.34	21.00
	COTTON HULL ASHES		
6151	The Hubbard-Hall Chemical Co., Waterbury, Conn. Sampled at Hatheway & Steane Corp., West Suffield.	38.86	unit basis
6164	The Hubbard-Hall Chemical Co., Waterbury, Conn. Sampled at Cullman Bros., Inc., Farm 1, Simsbury.	37.42	unit basis
6190	The Hubbard-Hall Chemical Co., Waterbury, Conn. Sampled at The Hartman Tobacco Co., Bloomfield.	40.12	unit basis
6195	The Hubbard-Hall Chemical Co., Waterbury, Conn. Sampled at Amer. Sumatra Tobacco Corp., Bloomfield.	33.56	unit basis
6623	The Hubbard-Hall Chemical Co., Waterbury, Conn. Sampled at Brookside Nurseries, Inc., Darien.	37.16	37.00
6778	The Hubbard-Hall Chemical Co., Waterbury, Conn. Sampled at The Hubbard-Hall Chemical Co., Portland.	38.96	37.00

[4] Magnesium: Guaranteed, 11.00%; found, 16.02%.

TABLE 4.

ANALYSES OF GROUND FISH, BONE, ETC.

Station No.	Manufacturer or jobber and dealer	Per cent nitrogen		Per cent phosphoric acid		Mechanical analysis (per cent)	
		Total found	Total guaranteed	Total found	Total guaranteed	Finer than 1/50 inch	Coarser than 1/50 inch
	DRY GROUND FISH						
6927	Gloucester By-Products, Inc., Gloucester, Mass. Sampled at H. L. Oppenheimer & Sons, West Suffield.	10.36	9.60				
6153	The Hubbard-Hall Chemical Co., Waterbury, Conn. Sampled at Hatheway & Steane Corp., West Suffield.	10.44	10.00	6.80	5.00		
6154	The Hubbard-Hall Chemical Co., Waterbury, Conn. Sampled at Hatheway & Steane Corp., West Suffield.	10.56	10.00	6.55	5.00		
6167	The Hubbard-Hall Chemical Co., Waterbury, Conn. Sampled at Cullman Bros., Inc., Farm 1, Simsbury.	10.40	10.00	7.00	5.00		
6175	The Hubbard-Hall Chemical Co., Waterbury, Conn. Sampled at Cullman Bros., Inc., Farm 1, Simsbury.	10.76	10.00	7.10	5.00		

6187	The Hubbard-Hall Chemical Co., Waterbury, Conn. Sampled at The Hartman Tobacco Co., Bloomfield.	10.52	10.00	6.85	5.00		
	BONE MEAL						
6887	Agricultural Products Co., Inc., West Kingston, R. I. Sampled at J. M. Fields, Branford.	2.44	2.25	26.88[1]		60.00	40.00
6682	Armour Agricultural Chemical Co., Atlanta, Ga. Sampled at Christoforo Farms Market, North Haven.	2.20	2.30	29.35	23.00	78.00	22.00
6621	Brookside Nurseries, Inc., Darien, Conn. Sampled at Brookside Nurseries, Darien.			28.40	25.00	63.00	27.00
6242	Consolidated Rendering Co., Boston, Mass. Sampled at New Haven Rendering Co., West Haven.	2.52	2.00	27.25	22.00	52.00	48.00
6554	Consolidated Rendering Co., Boston, Mass. State purchase, Danbury Teachers College, Danbury.	2.52	2.00	27.85	22.00	64.00	36.00
6733	Consolidated Rendering Co., Boston, Mass. State purchase, Mansfield Training School, Mansfield Depot.	2.52	2.00	26.70	22.00	64.00	36.00
6592	Faesy & Besthoff, Inc., New York, N. Y. Sampled at Leon Ezzell, Inc., Stamford.	2.48	2.47	27.30	23.00	63.00	37.00
6431	Goulard & Olena, Inc., Skillman, N. J. Sampled at The Peter Cascio Nursery, West Hartford.	5.96	3.50	19.69	20.00	35.00	65.00

~~~ Indicates deficiencies.

[1] "Available" phosphoric acid: Guaranteed, 20.00%; found, 18.53%.
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TABLE 4.

ANALYSES OF GROUND FISH, BONE, ETC.

Station No.	Manufacturer or jobber and dealer	Per cent nitrogen		Per cent phosphoric acid		Mechanical analysis (per cent)	
		Total found	Total guaranteed	Total found	Total guaranteed	Finer than 1/50 inch	Coarser than 1/50 inch
6433	Goulard & Olena, Inc., Skillman, N. J. Sampled at The Peter Cascio Nursery, West Hartford.	2.60	2.40	27.75	20.00	58.00	42.00
6854	A. H. Hoffman, Inc., Landisville, Pa. Sampled at Barker's, Inc., Orange.	2.36	2.00	28.15	17.00	67.00	33.00
6420	The Hubbard-Hall Chemical Co., Waterbury, Conn. Sampled at Sears, Roebuck & Co., West Hartford.	2.32	2.00	27.96	23.00		
6634	Lebanon Chemical Corp., Lebanon, Pa. Sampled at Cadwell & Jones, Inc., Hartford.	2.44	2.30	26.05[2]	20.00	68.00	32.00
6716	Old Fox Agricultural Sales, Inc., East Providence, R. I. Sampled at Putnam Farmers' Co-op Assn., Inc., Putnam.	3.44	2.00	24.90	23.00		

[2] "Available" phosphoric acid: Guaranteed, 15.00%; found, 18.00%.

6250	Sears, Roebuck & Co., Chicago, Ill. Sampled at Sears, Roebuck & Co., Hamden.	2.84	2.00	25.30[3]	23.00	55.00	45.00
6864	Wessel, Duval & Co., Inc., New York, N. Y. Sampled at Eastern States Farmers Exchange, Inc., Yantic.	2.44	2.47	28.10	23.00	69.00	31.00
	MILORGANITE						
6456	Sewerage Commission of the City of Milwaukee, Milwaukee, Wis. Sampled at Church & Morse, Inc., Meriden.	5.58	5.50	4.10[4]			
	DIAMMONIUM PHOSPHATE						
6932	The Hubbard-Hall Chemical Co., Waterbury, Conn. Sampled at The Hubbard-Hall Chemical Co., Portland.	18.84	18.00	47.80[5]			

[3] "Available" phosphoric acid: Guaranteed, 16.00%; found, 19.40%.

[4] "Available" phosphoric acid: Guaranteed, 3.00%; found, 3.05%.

[5] "Available" phosphoric acid: Guaranteed, 46.00%; found, 47.70%.

TABLE 5.

ANALYSES OF MIXED FERTILIZERS

Station No.	Manufacturer and brand	Place of Sampling
	A-PENN OIL CO., Butler, Pa.	
6494	Marvel Green Lawn Builder 20-10-5	Old Greenwich
	AGRICULTURAL PRODUCTS CO. West Kingston, R. I.	
6807	APCO Organic Lawn Food 5-4-0	Wethersfield
6310	Blue Ribbon 5-10-5 Fertilizer Lawn-Garden	New Britain
6875	Comet Lawn & Garden Fertilizer 5-10-5	Branford
6308	Golden Comet 8-6-4 Lawn Food	New Britain
6321	Guardian 8-6-4 Gro-Green Lawn Fertilizer	Willimantic
6852	Spur Lawn & Garden Fertilizer 5-10-5	Milford
6853	Super Turf King 8-6-4 Lawn Food	Milford
6851	Turf King Lawn & Garden Fertilizer 5-10-5	Milford
	AGRICULTURAL SUPPLY CO. West Haven, Conn.	
6301	Yale Special Mixture 8-6-2	Kensington
6284	Yale Special Mixture 8-6-2 with Chlordane	Hamden
	THE AMERICAN AGRICULTURAL CHEMICAL CO. North Weymouth, Mass.	
6731[1]	A-A Quality Fertilizer 0-20-20	Mansfield Depot
6870[1]	A-A Quality Fertilizer 0-20-20	Niantic
6491[2]	A-A Quality Fertilizer 5-10-5	Cos-Cob
6490[3]	A-A Quality Fertilizer 5-10-10	Cos-Cob
6730[1, 4]	A-A Quality Fertilizer 5-10-10	Mansfield Depot
6737[1, 5]	A-A Quality Fertilizer 5-10-10	Storrs

~~~ Indicates deficiencies.

[1] State purchase.

[2] Magnesium: Guaranteed, 1.20%; found, 2.15%.
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TABLE 5.

CONTAINING NITROGEN, PHOSPHORIC ACID, AND POTASH

Nitrogen, per cent					Phosphoric acid, per cent			Potash, per cent	
Nitrate	Ammoniacal	Water-soluble organic	Water-insoluble	Total	Citrate-insoluble	Total	So-called "available"	As muriate	Total
0.52	6.56	10.72	2.20	20.00	0.25	11.17	10.92	0.19	5.54
0.00	0.00	0.68	4.32	5.00	1.15	6.24	5.09		
0.00	5.04	0.08	0.00	5.12	0.15	9.92	9.77	4.13	4.55
0.00	5.12	0.08	0.08	5.28	0.15	10.64	10.49	4.67	5.16
0.00	6.08	0.42	1.66	8.16	0.50	6.55	6.05	4.48	4.59
0.00	8.64	0.84	0.76	10.24	0.35	8.00	7.65	4.57	5.44
0.00	5.04	0.16	0.08	5.28	0.20	11.45	11.25	3.88	5.25
0.00	6.16	0.83	1.17	8.16	0.60	5.87	5.27	3.85	4.12
0.00	4.88	0.28	0.00	5.16	0.30	10.35	10.05	3.09	5.38
0.00	4.48	2.98	0.94	8.40	0.15	6.52	6.37	2.56	2.56
0.00	4.24	2.32	0.58	7.14	0.12	5.50	5.38	2.02	2.37
					0.55	20.60	20.05	19.20	20.40
					0.35	21.04	20.69	16.79	20.76
0.00	4.24	0.62	0.14	5.00	0.15	10.70	10.55	4.26	5.25
0.16	4.16	0.32	0.10	4.74	0.20	10.20	10.00	8.06	9.22
1.24	3.76	0.40	0.00	5.40	0.50	10.70	10.20	3.89	9.47
1.22	4.08	0.08	0.00	5.38	0.40	10.82	10.42	4.99	10.08

[3] Magnesium: Guaranteed, 1.20%; found, 2.25%.

[4] Magnesium: Guaranteed 1.20%; found, 1.66%.

[5] Magnesium: Guaranteed, 1.20%; found, 1.60%.

TABLE 5.

ANALYSES OF MIXED FERTILIZERS

Station No.	Manufacturer and brand	Place of Sampling
6869[1,6]	A-A Quality Fertilizer 5-10-10	Niantic
6448[1]	A-A Quality Fertilizer 8-16-16	Cheshire
6521[1]	A-A Quality Fertilizer 8-16-16	Southbury
6446[1]	A-A Quality Fertilizer 10-6-4	New Haven
6449[1]	A-A Quality Fertilizer 10-6-4	Cheshire
6523[1]	A-A Quality Fertilizer 10-6-4	Southbury
6641[1]	A-A Quality Fertilizer 10-6-4	New Britain
6358[1]	A-A Quality Fertilizer 10-10-10	Enfield
6556[1]	A-A Quality Fertilizer 10-10-10	Newtown
6732[1]	A-A Quality Fertilizer 10-10-10	Mansfield Depot
6780[1]	A-A Quality Fertilizer 10-10-10	Midddletown
6396	A-A Quality Plant Food 5-10-5	Manchester
6453	A-A Quality Plant Food 10-6-4	Southington
6287	Agrico ACR Fertilizer 6-10-4	Hamden
6401	Agrico Country Club Fertilizer 12-4-8	Rockville
6402	Agrico for Gardens 5-10-5	Rockville
6285	Agrico for Lawns, Trees & Shrubs 6-10-4	Hamden
6452[7]	Agrico for New England 5-8-7	Southington
6929	Agrico for New England 5-8-7	Rockville
6451[8]	Agrico for Potatoes 5-10-10	Southington
6720	Agrico for Top Dressing 7-7-7	Willimantic
6395	Agrico Grass Food 10-6-4	Manchester
6492	Agrico Insect Control with Fertilizer 5-9-6	Cos-Cob
6483	Agrico Rose Food 5-9-6	Greenwich
6582	Homestead Farm Style Multi-Purpose Fertilizer 5-10-5	Thompsonville
	ARMOUR AGRICULTURAL CHEMICAL CO., Carteret, N. J.	
6505	Armour Armorganic Plant Food 5-5-0	South Windsor

~~~ Indicates deficiencies.

[1] State purchase.

[6] Magnesium: Guaranteed, 1.20%; found, 1.48%.
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TABLE 5.

CONTAINING NITROGEN, PHOSPHORIC ACID, AND POTASH

Nitrogen, per cent					Phosphoric acid, per cent			Potash, per cent	
Nitrate	Ammoniacal	Water-soluble organic	Water-insoluble	Total	Citrate-insoluble	Total	So-called "available"	As muriate	Total
0.26	3.84	1.32	0.10	5.52	0.50	11.00	10.50	7.31	10.22
2.12	5.84	0.24	0.00	8.20	0.35	16.40	16.05	13.81	15.80
2.36	5.68	0.24	0.00	8.28	0.30	16.85	16.65	14.90	16.38
0.22	6.64	1.60	0.86	9.32	0.30	7.25	6.95	4.73	5.41
0.18	5.52	3.04	1.58	10.32	0.20	7.37	7.17	4.49	4.55
0.22	5.04	3.12	1.62	10.00	0.40	8.50	8.10	4.33	4.52
0.32	5.36	2.80	1.52	10.00	0.35	8.20	7.85	4.70	5.07
1.76	8.16	0.48	0.44	10.84	0.55	10.70	10.15	7.53	10.01
1.80	8.40	0.32	0.12	10.64	0.45	10.80	10.35	6.93	10.04
1.76	8.56	0.24	0.20	10.76	0.50	10.62	10.12	6.76	10.08
1.74	8.08	0.32	0.10	10.24	0.40	10.62	10.22	9.11	10.15
1.72	3.52	0.08	0.00	5.32	0.35	10.40	10.05	4.77	5.28
0.00	7.60	1.98	0.22	9.80	0.10	6.27	6.17	3.19	4.12
0.00	4.00	1.52	0.68	6.20	0.27	10.20	9.93	2.79	4.08
0.48	5.44	5.04	1.92	12.88	0.40	5.25	4.85	6.35	8.59
0.26	3.28	0.96	0.94	5.44	0.55	10.80	10.25	3.89	5.34
0.00	3.82	1.08	0.78	5.68	0.37	10.67	10.40	3.21	4.47
1.40	3.36	0.24	0.00	5.00	0.20	8.50	8.30	4.90	7.03
0.76	3.60	0.48	0.16	5.00	0.35	8.95	8.60	4.93	7.03
1.00	3.82	0.42	0.12	5.36	0.20	10.75	10.55	10.24	10.86
1.04	5.10	0.90	0.00	7.04	0.35	8.32	7.97	4.95	7.20
0.00	4.64	3.12	3.68	11.44	0.55	6.75	6.20	3.04	4.52
0.00	2.56	2.14	0.30	5.00	0.60	9.90	9.30	5.38	6.11
0.00	2.56	2.56	0.20	5.32	0.45	9.60	9.15	4.30	6.84
1.52	3.68	0.32	0.00	5.52	0.45	10.45	10.00	3.15	5.10
0.00	0.00	0.56	4.44	5.00		6.16			

[7] Magnesium: Guaranteed, 1.20%; found, 1.47%.

[8] Magnesium: Guaranteed, 1.20%; found, 1.83%.

TABLE 5.

ANALYSES OF MIXED FERTILIZERS

Station No.	Manufacturer and brand	Place of Sampling
6512	Armour Big Crop Fertilizer 5-10-5	South Windsor
6513	Armour Big Crop Fertilizer 5-10-10	South Windsor
6506	Armour Gold Bond Tobacco Grower 6-3-6	South Windsor
6515	Armour Home & Garden Special 5-10-5	South Windsor
6588	Armour Lawn Special 10-6-4	East Windsor
6589	Armour Lightweight Vertagreen Lawn Fertilizer 20-10-10	East Windsor
6640	Armour Vertagreen for Acid Loving Plants 5-10-10	Hartford
6514	Armour Vertagreen Lawn Food 6-10-4 (25% Organic Nitrogen)	South Windsor
6681	Armour Vertagreen 10-6-4 for Turf 60% Organic Nitrogen)	North Haven
6503	Armour Vertagreen Plant Food 5-10-5 with 2, 4-D Weed Killer	South Windsor
6314	Armour Vertagreen Plant Food for Lawns & Gardens 5-10-5	Southington
6576	Armour Vertagreen Plant Food for Turf & Trees 10-6-4	Thompsonville
6502	Armour Vertagreen Rose Food 5-10-5	South Windsor
6925	Armour Vertagreen Turf Food with Chlordane 10-6-4	West Suffield
6504	Armour Vertagreen Turf Formula 8-6-2 (50% Organic Nitrogen)	South Windsor
6507	Armour Vertagreen Turf Formula 8-6-2 (50% Organic Nitrogen)	South Windsor
	ASGROW SEED CO., New Haven, Conn.	
6548	Asgrow Gro-Sod Lawn Food 22-8-4	Newtown
6893	Asgrow Gro-Sod Lawn Food 22-8-4	Milford
6894	Asgrow Weed-Nix Lawn Food with 2, 4-D 17-4-4	Milford
	F. A. BARTLETT TREE EXPERT CO. Stamford, Conn.	
6555	Bartlett Green Tree Food 6-8-6	Danbury

~~~ Indicates deficiencies.
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TABLE 5.

CONTAINING NITROGEN, PHOSPHORIC ACID, AND POTASH

Nitrogen, per cent					Phosphoric acid, per cent			Potash, per cent	
Nitrate	Ammoniacal	Water-soluble organic	Water-insoluble	Total	Citrate-insoluble	Total	So-called "available"	As muriate	Total
0.50	4.16	0.32	0.14	5.12	0.65	10.87	10.22	4.02	5.10
0.80	4.72	0.00	0.12	5.64	0.85	11.22	10.37	10.60	10.89
0.94	0.24	1.60	3.22	6.00	0.35	3.80	3.45	0.48	6.04
0.64	4.48	0.00	0.16	5.28	0.65	11.75	11.10	4.42	5.41
0.58	8.72	0.08	0.10	9.48	0.75	7.40	6.65	4.18	4.18
1.32	3.36	6.56	8.36	19.60	0.95	10.95	10.00	8.33	10.04
0.00	3.28	0.80	3.12	7.20	1.05	11.60	10.55	2.14	2.85
0.58	4.80	0.72	0.70	6.80	0.12	10.50	10.38	0.94	4.02
1.46	3.76	0.96	3.82	10.00	0.80	8.02	7.22	3.51	4.30
0.40	4.48	0.24	0.12	5.24	0.10	10.30	10.20	2.40	5.13
0.24	4.80	0.08	0.12	5.24	0.55	12.12	11.57	1.94	4.52
0.30	8.32	0.40	1.38	10.40	0.75	7.50	6.75	4.10	4.33
0.00	4.08	0.26	1.06	5.40	0.90	12.00	11.10	5.52	7.98
0.00	8.32	0.62	1.38	10.32	0.75	7.36	6.61	3.86	4.18
0.56	3.36	0.48	3.64	8.04	0.70	7.52	6.82	2.72	3.20
0.36	2.88	0.56	4.04	7.84	0.70	7.40	6.70	2.30	2.43
0.56	6.40	12.48	2.16	21.60	0.15	9.75	9.60		5.00
0.00	5.44	14.24	3.04	22.72	0.55	9.00	8.45	0.12	4.08
0.00	3.20	10.87	1.77	15.84	0.45	4.40	3.95	0.49	5.25
0.20	5.20	0.00	0.64	6.04	0.40	9.05	8.65	5.84	6.21

TABLE 5.

ANALYSES OF MIXED FERTILIZERS

Station No.	Manufacturer and brand	Place of Sampling
	JOSEPH BRECK & SONS, CORP. Boston, Mass.	
6678[9]	Breck's Garden Gro 5-10-10 1.2 mag.	Hamden
6679	Breck's New Improved Turf-Gro 20-6-4	Hamden
	BROOKSIDE NURSERIES, INC. Darien, Conn.	
6618	Brookside's Nature's Evergreen 5-4-4	Darien
6619	Brookside's Nature's Nutrients 6-6-8	Darien
6620	Brookside's Thrift Food 4-4-4	Darien
	W. ATLEE BURPEE CO. Philadelphia, Pa.	
6272	Burpee Lawn Food 20-10-5	Cheshire
	CADWELL & JONES, INC. Hartford, Conn.	
6303	C & J Hi Organic Fertilizer 10-6-4	Kensington
6922	C & J Lawn Food with weed killer 20-10-5	Hartford
6627	C & J Plant Food 5-10-5	Hartford
	CALIFORNIA CHEMICAL CO. ORTHO DIV., Richmond, Cal.	
6683	Ortho Liquid Rose Food 8-12-4	North Haven
6811	Ortho Unipel 14-14-14 Pelleted Fertilizer	Cromwell
	PETER CASCIO NURSERY, INC. West Hartford, Conn.	
6436	Cascio's Lawn Food 10-6-4	West Hartford
6437	Cascio's Professional 5-10-5 Lawn Food	West Hartford

~~~ Indicates deficiencies.

[9] Magnesium: Guaranteed, 1.20; found, 1.71%.
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TABLE 5.

CONTAINING NITROGEN, PHOSPHORIC ACID, AND POTASH

Nitrogen, per cent					Phosphoric acid, per cent			Potash, per cent	
Nitrate	Ammoniacal	Water-soluble organic	Water-insoluble	Total	Citrate-insoluble	Total	So-called "available"	As muriate	Total
1.12	3.60	0.16	0.12	5.00	0.40	10.47	10.07	7.22	9.58
0.16	3.84	14.08	0.92	19.00	0.32	7.40	7.08	3.47	4.36
0.10	0.00	0.56	5.02	5.68	3.90	10.65	6.75	0.45	4.24
0.00	0.00	0.64	4.98	5.62	1.10	9.05	7.95	2.60	8.29
0.24	0.00	0.48	3.80	4.52	0.40	7.05	6.65	0.52	4.15
0.00	6.64	9.36	4.72	20.72	0.30	12.17	11.87	3.36	5.00
0.24	3.36	5.68	1.00	10.28	0.05	6.80	6.75	2.27	4.02
0.76	5.44	11.20	2.84	20.24	0.85	11.25	10.40	3.09	3.99
1.34	3.60	0.24	0.10	5.28	0.15	9.80	9.65	3.82	5.50
0.00	3.44	4.64	0.00	8.08	0.00	11.70	11.70		4.05
6.88	7.20	1.00	0.00	14.08	0.60	15.65	15.05	12.40	14.08
0.00	5.04	3.60	1.62	10.26	0.40	6.55	6.10	3.55	4.18
0.00	2.72	2.10	0.78	5.60	0.20	10.00	9.80	5.50	5.50

TABLE 5.

ANALYSES OF MIXED FERTILIZERS

Station No.	Manufacturer and brand	Place of Sampling
	COMSTOCK FERRE CO., INC. Wethersfield, Conn.	
6803	Lawn Weed Killer & Feed Granules 17-4-4	Wethersfield
	CONSOLIDATED RENDERING CO. Boston, Mass.	
6889	Corenco 0-15-30	West Haven
6858	Corenco 0-20-20	Lisbon
6235	Corenco 5-8-7	West Haven
6558[1]	Corenco 5-8-7	Newtown
6764[1]	Corenco 5-8-7	Waterbury
6237	Corenco 5-10-5	West Haven
6553[1]	Corenco 5-10-5	Danbury
6624[1]	Corenco 5-10-5	Hartford
6305	Corenco Home Garden Fertilizer 5-10-5	New Britain
6244	Corenco 5-10-5 Rose Special	West Haven
6269[1]	Corenco 5-10-10	Cheshire
6455[1]	Corenco 5-10-10	Meriden
6501	Corenco 5-10-10	Wapping
6903[10]	Corenco 5-10-10 1.2 mag.	Springfield, Mass.
6892	Corenco 5-10-10 Liquid Fertilizer Concentrate	West Haven
6902	Corenco 6-3-6 Perfection Tobacco Grower	Springfield, Mass.
6901	Corenco 6-3-6 Premium Tobacco Grower	Springfield, Mass.
6500[11]	Corenco 6-8-8 1.2 mag.	Wapping
6236	Corenco 7-7-7	West Haven
6445[1]	Corenco 7-7-7	New Haven
6804	Corenco 7-7-7 Rhododendron	Wethersfield
6240	Corenco 8-6-4 Landscape	West Haven

~~~ Indicates deficiencies.

[1] State purchase.
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TABLE 5.

CONTAINING NITROGEN, PHOSPHORIC ACID, AND POTASH

Nitrogen, per cent					Phosphoric acid, per cent			Potash, per cent	
Nitrate	Ammoniacal	Water-soluble organic	Water-insoluble	Total	Citrate-insoluble	Total	So-called "available"	As muriate	Total
1.00	1.12	0.00	16.96	18.16	0.55	4.64	4.09		4.55
					0.20	15.20	15.00	25.56	29.60
					0.40	17.20	16.80	20.07	20.82
1.10	4.16	0.16	0.12	5.54	0.00	8.65	8.65	6.23	7.77
1.40	3.60	0.00	0.00	5.00	0.20	8.65	8.45	7.12	7.88
1.32	3.52	0.16	0.00	5.00	0.20	8.20	8.00	6.25	7.06
1.06	4.00	0.24	0.10	5.40	0.00	10.50	10.50	5.25	6.21
1.28	3.52	0.00	0.00	4.80	0.20	10.25	10.05	4.67	5.47
0.90	3.76	0.32	0.18	5.16	0.30	10.80	10.50	5.03	5.41
0.62	3.76	0.72	0.22	5.32	0.12	10.25	10.13	4.17	5.84
0.24	2.56	2.20	0.00	5.00	1.16	11.95	10.79	5.08	5.22
1.42	4.08	0.16	0.10	5.76	0.20	10.40	10.20	9.34	10.30
1.40	4.56	0.16	0.00	6.12	0.20	10.60	10.40	8.99	10.26
1.32	3.92	0.00	0.00	5.24	0.10	10.52	10.42	7.41	10.26
1.28	3.76	0.00	0.00	5.04	0.30	10.96	10.66	4.18	10.15
0.64	4.48	0.32	0.00	5.44	0.00	11.28	11.28	9.47	10.12
0.44	0.24	2.48	2.84	6.00	0.20	5.04	4.84	0.23	5.54
0.00	0.16	3.36	2.04	5.56	0.15	4.50	4.35	0.27	6.11
1.68	4.32	0.24	0.00	6.24	0.20	8.20	8.00	5.35	8.42
1.36	4.72	0.00	0.00	6.08	0.00	7.87	7.87	5.48	7.57
1.34	5.04	0.30	0.00	6.68	0.15	7.50	7.35	4.83	7.27
1.50	4.88	0.48	0.14	7.00	0.33	8.24	7.91	6.03	7.06
0.00	4.56	3.19	0.45	8.20	0.15	7.10	6.95	3.29	4.05

[10] Magnesium: Guaranteed 1.20%; found, 1.75%.

[11] Magnesium: Guaranteed 1.20%; found, 1.65%.

TABLE 5.

ANALYSES OF MIXED FERTILIZERS

Station No.	Manufacturer and brand	Place of Sampling
6888[12]	Corenco 8-12-12 .9 mag.	West Haven
6238	Corenco 8-16-16	West Haven
6859	Corenco 8-16-16	Lisbon
6891	Corenco 10-5-5 Liquid Green	West Haven
6280	Corenco 10-6-4 Golf & Lawn	North Haven
6447[1]	Corenco 10-10-10	Cheshire
6698	Corenco 10-10-10	Danielson
6860	Corenco 15-10-10	Lisbon
6861	Corenco Organic Turf Fertilizer 5-5-0	Lisbon
6386	Corenco Spurz-On 3-2.5-1.5	Thompsonville
6245	Corenco Timberline Complete Tree Food 10-8-2	West Haven
6518	Corenco Turf Green 8-6-4	East Hartford
6246	Corenco Turf Green 8-6-4 with Chlordane	West Haven
	THE DAVEY TREE EXPERT CO. Kent, Ohio	
6498	Davey Tree Food 12-4-4	Old Greenwich
	DAVISON CHEMICAL CO., DIV. W. R. GRACE & CO., Baltimore, Md.	
6756	0-15-30 Davco Granulated Fertilizer	Torrington
6937	0-20-20 Davco Granulated Fertilizer	Willimantic
6755	5-10-5 Davco Granulated Garden Food	Torrington
6754	5-10-10 Davco Granulated 3G Fertilizer	Torrington
6750	8-16-16 Davco Granulated 3G Fertilizer	New Milford
6751	10-10-10 Davco Granulated 3G Fertilizer	New Milford
6748	15-10-10 Davco Granulated 3G Fertilizer	New Milford
6938	Wonder Gro Lawn & Ornamental Plant Food 20-10-5	Willimantic

~~~ Indicates deficiencies

[1] State purchase.
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TABLE 5.

CONTAINING NITROGEN, PHOSPHORIC ACID, AND POTASH

Nitrogen, per cent					Phosphoric acid, per cent			Potash, per cent	
Nitrate	Ammoniacal	Water-soluble organic	Water-insoluble	Total	Citrate-insoluble	Total	So-called "available"	As muriate	Total
1.52	6.48	0.00	0.00	8.00	0.20	14.00	13.80	9.36	12.35
1.68	6.24	0.24		8.16	0.05	15.82	15.77	13.31	16.45
1.76	6.24	0.00	0.00	8.00	0.75	15.82	15.07	10.57	16.26
0.42	1.92	7.36	0.00	9.70	0.00	7.12	7.12	4.25	5.19
0.00	5.20	3.60	0.98	9.78	0.20	6.95	6.75	4.09	4.35
2.18	7.92	0.00	0.00	10.10	0.15	12.55	12.40	10.13	10.78
1.40	4.80	0.04	0.32	6.56	0.25	11.22	10.97	6.03	8.05
1.74	10.88	2.24	0.14	15.00	0.20	10.70	10.50	7.09	10.33
0.00	0.00	0.24	5.02	5.26	1.25	6.60	5.35		
0.40	0.40	1.52	1.60	3.92	0.35	2.82	2.47	0.52	1.77
0.28	2.16	2.72	3.96	9.12	0.12	8.27	8.15	3.69	4.12
0.00	4.80	1.04	2.68	8.52	0.17	5.52	5.35	3.61	4.30
0.20	3.52	1.92	1.84	7.48	0.15	8.47	8.32	4.91	4.91
1.18	10.08	0.32	0.74	12.32	0.30	4.50	4.20	3.51	4.05
					0.65	18.00	17.35	24.37	24.88
					1.15	22.30	21.15	19.51	20.43
0.92	4.24	0.00	0.00	5.16	0.25	10.65	10.40	4.81	5.38
0.60	4.16	0.32	0.00	5.08	0.25	10.55	10.30	8.35	10.08
2.00	5.60	0.40	0.00	8.00	0.30	16.45	16.15	14.65	16.20
2.82	6.72	0.48	0.00	10.02	0.25	10.50	10.25	9.43	10.22
2.88	10.72	1.44	0.00	15.04	0.20	10.80	10.60	6.67	10.40
0.00	2.08	10.40	7.64	20.12	0.38	9.90	9.52	4.66	5.57

[12] Magnesium: Guaranteed, 0.90%; found, 1.27%.

TABLE 5.

ANALYSES OF MIXED FERTILIZERS

Station No.	Manufacturer and brand	Place of Sampling
	DAYTON FERTILIZER CORP. Dayton, N. J.	
6428	Grand Garden Plant Food 6-10-4	West Hartford
6427	Grand Lawn Fertilizer 10-6-4 40% Organic	West Hartford
6598	Grand Lawn Lightweight Fertilizer 15-7-5	Stamford
6552	Lawn Treat Lawn & Garden Fertilizer 5-10-5	Danbury
	E. I. du PONT de NEMOURS & CO. Wilmington, Del.	
6335	Du Pont Turf Food 20-10-10	Willimantic
6297	Du Pont Turf Food 20-10-10 with 2, 4-D Weed Killer	Berlin
	EASTERN STATES FARMERS' EXCHANGE, INC. West Springfield, Mass.	
6265[13]	Eastern States 0-10-30 With Borax	North Haven
6550	Eastern States 0-25-25	Bethel
6392[14]	Eastern States 5-10-10 1.8 mag.	Buckland
6584[15]	Eastern States 5-10-10 SM 1.2 mag.	Hazardville
6391	Eastern States 8-16-16	Buckland
6399[16]	Eastern States 10-10-10	Rockville
6710[17]	Eastern States 10-15-15 LC	Putnam
6862[18]	Eastern States 10-20-10	Yantic
6551	Eastern States 10-20-20	Bethel
6389	Eastern States 15-10-10	Buckland
6400	Eastern States 15-15-15	Rockville

~~~ Indicates deficiencies.

[13] Boron: Guaranteed; 0.30-0.50%; found, 0.55%.

[14] Magnesium: Guaranteed, 1.80%; found, 3.11%.

[15] Magnesium: Guaranteed, 1.20%; found, 2.86.
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TABLE 5.

CONTAINING NITROGEN, PHOSPHORIC ACID, AND POTASH

Nitrogen, per cent					Phosphoric acid, per cent			Potash, per cent	
Nitrate	Ammoniacal	Water-soluble organic	Water-insoluble	Total	Citrate-insoluble	Total	So-called "available"	As muriate	Total
1.00	4.64	0.48	0.16	6.28	0.25	10.40	10.15	4.16	4.21
0.70	5.44	2.16	1.14	9.44	0.35	7.05	6.70	4.13	4.15
0.30	13.36	0.56	0.90	15.12	0.05	6.90	6.85	2.02	5.22
1.16	3.20	0.48	0.16	5.00	0.15	10.35	10.20	5.27	5.63
0.62	2.72	5.52	11.14	20.00	0.15	11.15	11.00	7.06	10.12
0.00	2.88	5.66	11.22	19.76	0.15	10.75	10.60	6.56	10.04
					0.20	11.55	11.35	28.57	31.34
					0.55	25.55	25.00	25.60	25.60
1.56	3.28	0.40	0.00	5.24	0.30	11.00	10.70	9.38	10.55
1.52	3.52	0.24	0.00	5.28	0.35	10.62	10.27	10.07	10.74
2.48	5.60	0.32	0.00	8.40	0.22	16.40	16.18	16.14	16.43
2.56	7.44	0.72	0.00	10.72	0.35	10.70	10.35	5.18	10.78
1.20	7.12	1.68	0.00	10.00	0.25	15.65	15.40	2.43	15.10
1.82	6.56	1.44	0.18	10.00	0.50	20.00	19.50	5.38	10.19
2.28	7.44	0.48	0.00	10.20	0.35	20.70	20.35	19.16	20.76
1.36	12.96	0.88	0.00	15.20	0.10	11.77	11.67	8.02	10.04
2.52	8.88	3.64	0.00	15.04	0.05	15.00	14.95	15.23	15.36

[16] Magnesium: Guaranteed, 0.60%; found, 1.27%.

[17] Magnesium: Guaranteed, 1.20%; found, 1.37%.

[18] Magnesium: Guaranteed, 0.60%; found, 1.11%.

TABLE 5.

ANALYSES OF MIXED FERTILIZERS

Station No.	Manufacturer and brand	Place of Sampling
6320[19]	Eastern States Green Lawn 10-5-5 2.4	Willimantic
6267[20]	Eastern States Green Lawn with Dacthal 10-5-5 2.4 mag.	North Haven
6318[21]	Eastern States Lawn Special 10-6-4	Willimantic
	THE ESPOMA CO., Millville, N. J.	
6472	Bulb-Tone 4-10-6	Greenwich
6470	Espoma Organic 3-2-1	Greenwich
6897	Espoma Rose Food 6-6-4	Trumbull
6896	Garden Tone 4-6-6	Trumbull
6487	Holly-Tone 4-6-4	Greenwich
6895	Turf-Tone 10-6-4	Trumbull
	FAESY & BESTHOFF, INC. New York, N. Y.	
6383[37]	F & B All-Purpose Pelletized 10-6-4	Thompsonville
6840	F & B Garden Food 5.-10-5	Fairfield
6837	F & B Rose Food 8-10-4	Fairfield
	FIRST NATIONAL STORES, INC. East Hartford, Conn.	
6642	Emerald Green Lawn Food 12-5-7	New Britain
6516	Emerald Green Plant Food 8-12-6	East Hartford
	THE GARDEN CENTER, INC. West Hartford, Conn.	
6415	The Garden Center Lawn Food 10-6-4	West Hartford
	GLEN TERRACE NURSERIES, INC. Hamden, Conn.	
6676	Glen Terrace Lawn Food 10-6-4	Hamden

~~~ Indicates deficiencies.

[19] Magnesium: Guaranteed, 2.40%; found, 5.30%.

[20] Magnesium: Guaranteed, 2.40%; found, 5.07%.
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TABLE 5.

CONTAINING NITROGEN, PHOSPHORIC ACID, AND POTASH

Nitrogen, per cent					Phosphoric acid, per cent			Potash, per cent	
Nitrate	Ammoniacal	Water-soluble organic	Water-insoluble	Total	Citrate-insoluble	Total	So-called "available"	As muriate	Total
0.00	2.40	2.98	4.62	10.00	0.40	5.75	5.35	4.13	5.19
0.42	2.24	2.64	4.82	10.12	0.25	5.85	5.60	3.97	5.22
0.00	6.24	2.00	2.86	11.10	0.30	6.90	6.60	2.59	4.18
0.32	3.52	0.64	1.28	5.76	0.45	13.30	12.85	6.29	7.81
0.00	2.08	0.60	1.52	4.20	0.40	4.20	3.80	1.08	2.85
0.30	3.84	0.32	2.34	6.80	0.35	6.25	5.90	4.65	6.21
0.34	4.24	0.16	0.90	5.64	0.35	6.68	6.33	6.32	8.29
0.00	2.48	0.64	1.92	5.04	0.55	7.40	6.85	5.60	6.89
0.44	8.00	3.68	0.88	13.00	0.40	6.64	6.24	1.83	4.00
1.76	7.52	0.48	0.00	9.76	0.25	7.47	7.22	3.61	4.71
1.20	2.40	0.08	1.80	5.48	0.80	12.40	11.60	5.66	5.90
1.02	4.72	1.28	1.30	8.32	0.75	11.17	10.42	4.06	5.07
0.00	6.24	5.44	0.60	12.28	0.25	6.17	5.92	5.44	7.20
0.80	4.80	0.96	0.60	7.16	0.25	12.30	12.05	3.68	6.11
0.00	5.12	3.20	1.38	9.70	0.60	7.23	6.63	3.86	4.15
0.00	4.64	4.08	1.28	10.00	0.60	7.22	6.62	4.09	4.24

[21] Magnesium: Guaranteed, 2.40%; found, 3.51%.

[37] Manganese: Guaranteed, 0.136%; found, 0.032%. Copper: Guaranteed, 0.05%; found, 0.044. Zinc: G., 0.05%; f., 0.013%.

TABLE 5.

ANALYSES OF MIXED FERTILIZERS

Station No.	Manufacturer and brand	Place of Sampling
	GLORION DIVISION, ALUMINUM & CHEMICAL CORP. Greenwich, Conn.	
6845	Glorion 4-8-8	Stratford
	GODFREY'S GARDEN SHOP Fairfield, Conn.	
6661	Godfrey's Lawn & Tree Food 10-5-5	Fairfield
	GOULARD & OLENA, INC. Skillman, N. J.	
6654	G & O Blue Ribbon for Fine Lawns, Flowers, Shrubs & Vegetables 5-10-5	Norwalk
6663	G & O Evergreen Food 5-10-10	Fairfield
6655	G & O Green Ribbon 10-6-4	Norwalk
6339	G & O Hyganic Lawn Food 10-6-4	Manchester
6343	G & O Light Fantastic Lawn Food 20-6-4	Manchester
6432	G & O Plant Food for Acid Loving Plants 6-10-4	West Hartford
6340	G & O Prizegro 5-10-5	Manchester
6658[22]	G & O Rose Food 7-8-5	Norwalk
6664	G & O Tomato Food 5-10-10	Fairfield
6434	G & O Turf Food and Insecticide 10-6-4 with Chlordane	West Hartford
6435	Goulard's Formula 8-15-5 (No Filler & 100% Organic)	West Hartford
	GREEN RIBBON PRODUCTS CO. North Haven, Conn.	
6354	Green Ribbon Lawn Food 10-6-4	Manchester
6466	Green Ribbon Plant Food 5-10-5	Middletown

~~~ Indicates deficiencies.
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TABLE 5.

CONTAINING NITROGEN, PHOSPHORIC ACID, AND POTASH

Nitrogen, per cent					Phosphoric acid, per cent			Potash, per cent	
Nitrate	Ammoniacal	Water-soluble organic	Water-insoluble	Total	Citrate-insoluble	Total	So-called "available"	As muriate	Total
0.68	2.96	0.32	0.12	4.08	0.23	9.55	9.32	4.89	8.29
0.84	1.36	5.60	2.20	10.00	0.30	5.50	5.20	4.36	5.19
1.20	4.40	0.24	0.36	6.20	0.55	10.20	9.65	4.34	5.31
1.44	3.60	0.00	0.00	5.04	0.70	11.00	10.30	6.39	10.44
1.26	7.28	0.96	0.50	10.00	0.70	8.15	7.45	3.48	4.46
0.76	5.04	3.12	2.00	10.92	0.30	6.80	6.50	4.30	4.30
0.80	4.56	8.40	7.04	20.80	0.00	6.30	6.30	3.25	4.59
0.90	5.04	0.00	0.22	6.16	0.90	12.06	11.16	4.75	5.50
0.98	3.60	0.32	0.74	5.64	0.39	11.10	10.71	4.29	5.19
0.84	5.04	0.80	0.60	7.28	0.50	8.90	8.40	3.15	5.54
0.94	2.64	0.88	0.54	5.00	0.50	10.72	10.22	7.84	10.30
0.72	5.36	2.32	1.60	10.00	0.35	6.55	6.20	3.89	4.39
0.24	1.84	3.84	3.28	9.20	0.47	12.40	11.93	5.05	5.66
0.00	8.28	1.96	0.16	10.40	0.25	7.25	7.00	3.88	4.33
0.00	3.48	1.82	0.18	5.48	0.40	10.70	10.30	4.69	5.28

[22] Iron: Guaranteed, 0.15%; found, 0.76%.

TABLE 5.

ANALYSES OF MIXED FERTILIZERS

Station No.	Manufacturer and brand	Place of Sampling
	HALSTEAD DISTRIBUTING CORP. Mt. Kisco, N. Y.	
6603	Just Right 5-10-5	Darien
6601	Just Right 10-6-4	Darien
	THE CHARLES C. HART SEED CO. Wethersfield, Conn.	
6783	Deane's Formula 22-35X 20-10-5	Wethersfield
6785	Hart's All-Organic Plant Food 5-4-0	Wethersfield
6416	Hart's All Purpose Plant Food 5-10-5	West Hartford
6784	Hart's Crabgrass Seed Killer & Lawn Fertilizer 10-6-4	Wethersfield
6684	Hart's Plant Food 5-10-5	North Haven
6394	Hart's Turf Food 20-10-5	Manchester
6801	Hart's Two-For-One 10-6-4 with 2, 4-D	Wethersfield
	HERSHEY ESTATES, INC. Hershey, Pa.	
6484	Ko-K-O Meal 3-1-3	Greenwich
	THE HUBBARD-HALL CHEMICAL CO. Waterbury, Conn.	
6728	Green Gro Lawn Fertilizer 6-7-4	Norwich
6765	HH Blade Lawn Food 20-6-4	Portland
6770	HH Bulb Food 7-10-4	Portland
6274	HH Evergreen Food 4-10-4	Cheshire
6936	HH Gro-Fast Sol Water Soluble Concentrate 16-20-16	Portland
6717	HH Gro Mor Garden Fertilizer 5-10-10	Danielson
6616	HH Lawn Fertilizer with Chlordane 8-6-4	Darien
6273	HH Luxura Lawn Food (Urea-Form) 10-5-5	Cheshire
6606	HH Nitroganic 5-4-0	Darien
6349	HH Plant Food 5-10-5	Manchester

~~~ Indicates deficiencies
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TABLE 5.

CONTAINING NITROGEN, PHOSPHORIC ACID, AND POTASH

Nitrogen, per cent					Phosphoric acid, per cent			Potash, per cent	
Nitrate	Ammoniacal	Water-soluble organic	Water-insoluble	Total	Citrate insoluble	Total	So-called "available"	As muriate	Total
0.00	4.00	1.04	0.00	5.04	0.25	10.25	10.00	4.61	5.22
0.58	5.68	2.40	1.74	10.40	0.70	7.15	6.45	2.92	4.21
0.40	5.92	11.36	3.12	20.80	0.20	11.37	11.17	3.81	5.07
0.00	0.32	0.36	4.64	5.32	1.20	7.12	5.92		
1.28	3.36	0.24	0.20	5.08	0.40	10.40	10.00	3.05	4.59
0.00	4.48	4.48	1.68	10.64	0.40	6.47	6.07	3.36	4.12
0.54	4.40	0.16	0.14	5.24	0.30	10.65	10.35	5.61	6.04
0.00	5.28	12.00	3.52	20.80	0.25	11.55	11.30	5.00	5.00
0.00	4.64	4.40	1.44	10.48	0.53	7.04	6.51	2.79	4.62
0.00	0.32	1.00	2.20	3.52	0.10	1.45	1.35		3.29
0.20	3.76	1.76	0.52	6.24	0.45	7.60	7.15	4.05	4.21
0.66	4.16	12.64	1.48	18.94	0.60	6.48	5.88	0.57	4.97
0.00	3.68	3.36	1.20	8.24	0.20	9.50	9.30	0.49	4.75
0.12	1.92	1.28	1.08	4.40	0.35	10.67	10.32	3.51	4.49
2.80	4.80	8.48	0.00	16.08	0.05	20.20	20.15	14.29	16.20
0.54	3.68	0.56	0.58	5.36	0.70	11.50	10.80	8.07	9.25
0.44	3.84	2.80	1.00	8.08	0.50	7.05	6.55	4.08	4.24
0.54	2.24	4.24	4.22	11.24	0.27	6.00	5.73	3.51	5.00
0.00	0.16	0.52	4.40	5.08	1.20	5.72	4.52		
0.00	3.68	1.12	0.78	5.58	0.37	10.70	10.33	5.05	5.22

TABLE 5.

ANALYSES OF MIXED FERTILIZERS

Station No.	Manufacturer and brand	Place of Sampling
6650	HH Rose Food 7-10-5	Bridgeport
6759[1]	HH Rose Food 7-10-5	Torrington
6729	HH Turf & Tree Food 10-6-4	Norwich
6776	Lawn Craft Turf Fertilizer 10-6-4	Portland
6257	Lawn Craft 8-6-4 Turf Food (50% Nitrogen Organic)	North Haven
6255	Lawn Craft 10-6-4 Turf Food (50% Nitrogen Organic)	North Haven
6931	Liberty 0-15-30	Portland
6271[1]	Liberty 0-15-30	Cheshire
6570	Liberty 0-20-20	Windsorville
6572	Liberty 0-25-25	Windsorville
6341	Liberty 5-8-7	Manchester
6348	Liberty 5-10-5	Manchester
6256	Liberty 5-10-10	North Haven
6646	Liberty 5-10-10 with 8 lbs. of Actual Aldrin per ton	Plainville
6808[23]	Liberty 5-10-10 1.2 mag.	Cromwell
6464	Liberty 7-7-7	Meriden
6917[24]	Liberty 8-12-12 1.2 mag.	Windsorville
6918	Liberty 8-16-16	Windsorville
6302	Liberty 10-6-4	Kensington
6263	Liberty 10-10-10	North Haven
6685[1]	Liberty 10-10-10	Danielson
6565	Liberty 15-10-10	Windsorville
6777	Liberty 15-15-15	Portland
6775	Liberty 16-8-16	Portland
6569	Liberty Super Corn 10-10-10	Windsorville
6644[25]	Liberty Super Gro 5-10-10 1.2 mag.	Plainville
6567	Liberty Super Gro 8-16-16 Fertilizer	Windsorville
6915[26]	Liberty Super Spud Fertilizer 6-8-8 1.2 mag.	Windsorville

~~~ Indicates deficiencies.

[1] State purchase.

[23] Magnesium: Guaranteed, 1.20%; found, 1.42%.
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TABLE 5.

CONTAINING NITROGEN, PHOSPHORIC ACID, AND POTASH

Nitrogen, per cent					Phosphoric acid, per cent			Potash, per cent	
Nitrate	Ammoniacal	Water-soluble organic	Water-insoluble	Total	Citrate-insoluble	Total	So-called "available"	As muriate	Total
0.00	3.76	3.36	1.04	8.16	0.15	8.37	8.22	0.58	4.59
0.20	3.60	2.56	1.16	7.52	0.15	9.30	9.15	0.25	5.10
0.00	5.28	3.68	1.40	10.36	0.55	6.67	6.12	3.23	4.21
0.20	4.80	3.76	1.24	10.00	0.65	7.18	6.53	4.48	4.49
0.00	4.32	2.90	0.78	8.00	0.30	6.62	6.32	4.09	4.15
0.00	2.80	7.68	0.24	10.72	0.22	6.65	6.43	1.95	4.65
					0.70	17.05	16.35	26.46	29.56
					0.67	15.60	14.93	24.75	27.24
					0.75	21.00	20.25	16.57	20.83
					0.15	25.10	24.95	23.13	24.46
0.72	4.00	0.64	0.24	5.60	0.21	8.50	8.29	6.00	6.79
0.18	3.36	1.52	0.22	5.28	0.20	10.70	10.50	5.30	5.54
0.00	4.32	0.60	0.32	5.24	0.20	10.60	10.40	8.27	10.04
1.14	2.24	1.92	0.14	5.44	0.50	10.80	10.30	7.36	9.11
0.68	4.40	0.48	0.00	5.56	0.40	10.55	10.15	8.27	10.33
0.26	5.32	1.32	0.22	7.12	0.35	8.17	7.82	6.22	6.65
1.84	5.68	0.40	0.08	8.00	0.55	12.40	11.85	12.54	12.54
1.56	6.32	0.40	0.00	8.28	0.50	16.64	16.14	16.03	16.03
0.24	9.20	0.80	0.16	10.40	0.15	6.85	6.70	1.43	4.08
0.00	9.20	0.72	0.44	10.36	0.27	11.05	10.78	7.81	10.01
1.60	6.16	2.00	0.24	10.00	0.40	11.25	10.85	7.93	10.08
1.68	12.32	0.16	0.00	14.16	0.40	10.85	10.45	6.28	8.05
0.00	14.40	0.48	0.20	15.08	0.15	17.70	17.55	8.63	13.50
1.64	13.76	0.48	0.12	16.00	0.10	8.25	8.15	13.24	16.02
2.00	7.44	0.00	0.00	9.44	0.30	10.45	10.15	10.50	12.31
1.48	3.60	0.00	0.00	5.08	0.30	10.40	10.10	4.97	10.22
2.48	5.44	0.08	0.00	8.00	0.55	17.00	16.45	13.96	16.38
1.28	4.96	0.16	0.00	6.40	0.40	9.28	8.88	8.46	8.46

[24] Magnesium: Guaranteed, 1.20%; found, 1.67%.

[25] Magnesium: Guaranteed, 1.20%; found, 2.82%.

[26] Magnesium: Guaranteed, 1.20%; found, 1.61%.

TABLE 5.

ANALYSES OF MIXED FERTILIZERS

Station No.	Manufacturer and brand	Place of Sampling
6566[27]	Liberty Super Spud Fertilizer 8-10-10 1.2 mag.	Windsorville
6568[28]	Liberty Super Spud "500" 5-8-8 1.2 mag.	Windsorville
6920[29]	Liberty Super Tobacco Fertilizer 6-4-7 1.2 mag.	Windsorville
6573	Liberty Tobacco Fertilizer 6-3-6	Windsorville
6769	Liberty Tobacco Fertilizer 6-3-6 Half & Half	Portland
6258	Woodruff's 10-5-5 Lawn & Tree Food	North Haven
6454[1]	Woodruff's 10-5-5 Lawn & Tree Food	Meriden
	INTERNATIONAL MINERALS & CHEMICAL CORP. Woburn, Mass.	
6637	Fertilis All-Purpose Plant Food 5-10-5	Hartford
6818	Fertilis All-Purpose Plant Food 10-6-4	North Haven
6817	Thrive Lawn Food 20-6-4	North Haven
	KEN-BRIS FARMS, INC. Philadelphia, Pa.	
6900	Society Hill Lawn Feeder 20-10-5	Bridgeport
6898	Society Hill Weeder-Feeder 10-6-4	Bridgeport
	LAWN-TEX, INC., Chicago, Ill.	
6605	Organi-Green Lawn Food 5-5-5	Darien

~~~ Indicates deficiencies.

[1] State purchase.

[27] Magnesium: Guaranteed, 1.20%; found, 1.91%.
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TABLE 5.

CONTAINING NITROGEN, PHOSPHORIC ACID, AND POTASH

Nitrogen per cent					Phosphoric acid, per cent			Potash, per cent	
Nitrate	Ammoniacal	Water-soluble organic	Water-insoluble	Total	Citrate-insoluble	Total	So-called "available"	As muriate	Total
1.44	7.20	0.24	0.00	8.88	0.35	11.25	10.90	4.21	8.90
0.50	1.84	0.24	0.50	3.08	0.65	14.10	13.45	14.92	17.28
1.36	0.16	1.60	2.88	6.00	0.20	5.25	5.05		7.20
1.64	0.24	1.44	2.68	6.00	0.20	3.80	3.60	0.31	6.31
1.20	0.16	1.84	2.80	6.00	0.23	3.96	3.73		6.07
0.38	3.44	4.96	0.82	9.60	0.20	5.27	5.07	4.16	5.07
0.00	3.20	5.52	0.94	9.66	0.45	5.50	5.05	4.12	5.00
0.94	3.68	0.32	0.14	5.08	0.00	10.35	10.35	7.08	9.07
0.00	5.12	1.62	3.42	10.16	0.40	11.32	10.92	4.36	4.36
0.00	5.12	13.24	1.64	20.00	0.90	5.84	4.94		4.77
0.92	3.52	17.12	2.04	23.60	0.05	11.20	11.15	0.48	4.39
0.38	4.00	7.68	0.82	12.88	0.70	9.70	9.00	4.30	4.33
0.34	0.00	0.32	4.34	5.00	0.95	6.90	5.95	0.31	0.59

[28] Magnesium: Guaranteed, 1.20%; found, 1.20%.

[29] Magnesium: Guaranteed, 1.20%; found, 1.92%.

TABLE 5.

ANALYSES OF MIXED FERTILIZERS

Station No.	Manufacturer and brand	Place of Sampling
	LEBANON CHEMICAL CORP. Lebanon, Pa.	
6636[30]	Lebanon Azalea & Evergreen Fertilizer with Chelated Iron 6-7-5	Hartford
6921	Lebanon Crab Seed Killer & Lawn Fertilizer 10-6-4	Hartford
6632	Lebanon Fertilizer 5-10-10	Hartford
6841	Lebanon Hi Organic 10-6-4	Stratford
6782[31]	Lebanon Rose Food 7-7-7	Wethersfield
6919	Lebanon Truck Crop 5-10-5	Hartford
6633	Lebanon Turf Organic 5-4-0	Hartford
6412[32]	Lebanon Uni-Form 10-6-4	West Hartford
6288	Pennsylvania Dutch 5-10-5	Berlin
6843	Pennsylvania Dutch 5-10-5	Stratford
6626	Pennsylvania Dutch 10-6-4	Hartford
6844	Pennsylvania Dutch 10-6-4 (100% Organic Nitrogen)	Stratford
	LEE PATTEN SEED CO. Jersey City, N. J.	
6639	Patco's Allganic 4-6-2	Hartford
6638	Patco's Combo Complete Lawn Food Plus Weed Killer 10-6-4	Hartford
6721	Patco's Featherweight Lawn Food 20-10-5	Norwich
6338	Patco's Lawn Food 9-8-3	Manchester
	LUZERNE FERTILIZER CO. Nescopeck, Pa.	
6547	Luzerne All Purpose Plant Food 5-10-5	Newtown

~~~ Indicates deficiencies.

[30] Iron: Guaranteed, 0.075%; found, 1.59%.
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TABLE 5.

CONTAINING NITROGEN, PHOSPHORIC ACID, AND POTASH

Nitrogen, per cent					Phosphoric acid, per cent			Potash, per cent	
Nitrate	Ammoniacal	Water-soluble organic	Water-insoluble	Total	Citrate-insoluble	Total	So-called "available"	As muriate	Total
0.22	4.80	1.12	1.26	7.40	0.55	7.85	7.30	6.47	7.03
0.00	4.32	4.80	1.36	10.48	0.40	6.40	6.00	2.93	4.02
1.16	3.28	0.80	0.12	5.36	0.20	10.50	10.30	8.42	9.47
0.00	4.16	4.96	0.90	10.02	0.25	6.30	6.05	2.52	4.15
0.00	5.36	0.80	1.20	7.36	0.60	7.70	7.10	5.96	7.27
1.40	4.08	0.00	0.80	6.28	0.30	11.14	10.84	1.98	4.05
0.00	0.00	0.40	4.60	5.00	1.30	6.45	5.15		
0.00	1.28	5.36	4.40	11.04	0.32	7.10	6.78	3.09	3.57
1.20	2.00	2.32	0.16	5.68	0.14	10.62	10.48	4.49	5.47
1.22	3.44	0.16	0.00	4.82	0.30	10.20	9.90	4.49	5.22
1.10	8.32	0.56	0.22	10.20	0.10	6.82	6.72	2.74	4.02
0.00	3.68	5.36	1.08	10.12	0.30	6.97	6.67	2.62	5.31
0.00	0.00	0.32	3.82	4.14	0.70	6.70	6.00	2.14	2.49
0.00	5.12	4.08	1.50	10.70	0.35	6.65	6.30	2.42	4.27
0.00	5.12	12.32	4.00	21.44	0.40	12.40	12.00	2.22	5.03
0.74	4.72	1.44	1.82	8.72	0.15	8.50	8.35	3.00	3.29
0.00	3.44	1.76	0.12	5.32	0.45	11.62	11.17	5.02	5.60

[31] Iron: Guaranteed, 0.075%; found, 1.38%.

[32] Iron: Guaranteed, 0.15%; found, 1.94%.

TABLE 5.

ANALYSES OF MIXED FERTILIZERS

Station No.	Manufacturer and brand	Place of Sampling
	THE MAMLON CO., New Haven, Conn.	
6279	Fer-Mel Lawn Food 25-12-10	North Haven
6628	Fer-Mel Water Soluble General Purpose Plant Food 18-18-18	Portland
6688	Fer-Mel Water Soluble Turf & Tree Food 24-12-12	Wethersfield
6629	Fer-Mel Water Soluble Turf & Tree Food 24-12-12	Portland
	McARDLE'S SEED CO. Greenwich, Conn.	
6468	McArdle's Lawn & Tree Food 10-6-4	Greenwich
	OLD FOX AGRICULTURAL SALES, INC., East Providence, R. I.	
6825	Green Lawn Fertilizer 8-6-4	Plantsville
6908	Old Fox Brand 0-15-30	Hazardville
6557[1]	Old Fox Brand 0-15-30 with 20 lbs. Borax to Ton	Newtown
6734[1]	Old Fox Brand 0-15-30 w/20 lbs. Borax	Storrs
6369	Old Fox Brand 0-20-20	Hazardville
6270[1]	Old Fox Brand 0-20-20	Cheshire
6367	Old Fox Brand 4-16-20	Hazardville
6715	Old Fox Brand 5-10-5	Putnam
6738[1]	Old Fox Brand 5-10-5	Storrs
6910	Old Fox Brand 5-10-5	Hazardville
6914	Old Fox Brand 5-10-10	Hazardville
6368	Old Fox Brand 5-10-10 1.2 mag.	Hazardville
6374	Old Fox 6-3-6 Tobacco Fertilizer	Hazardville
6372[33]	Old Fox 6-3-6 Tobacco Fertilizer 1.2 mag.	Hazardville
6913[34]	Old Fox Brand 6-8-8 1.2 mag.	Hazardville

~~~ Indicates deficiencies.

[1] State purchase.
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TABLE 5.

CONTAINING NITROGEN, PHOSPHORIC ACID, AND POTASH

Nitrogen, per cent					Phosphoric acid, per cent			Potash, per cent	
Nitrate	Ammoniacal	Water-soluble organic	Water-insoluble	Total	Citrate-insoluble	Total	So-called "available"	As muriate	Total
0.36	4.64	19.60	0.12	24.72	0.05	12.27	12.22	6.67	10.37
2.80	6.40	9.44	0.00	18.64	0.00	16.10	16.10	13.53	18.86
3.28	4.88	18.16	0.00	26.32	0.00	11.85	11.85	12.44	13.35
0.44	3.74	24.58	0.00	28.76	0.10	12.15	12.05	11.45	12.31
0.00	5.36	3.38	1.44	10.18	0.45	8.73	8.28	3.61	4.12
0.92	7.68	0.08	0.00	8.68	0.20	7.10	6.90	3.33	4.24
				2.26	0.30	16.00	15.70	18.73	20.68
					0.30	15.85	15.55	25.34	31.08
					0.20	26.60	26.40	31.08	33.96
					0.35	20.75	20.40	15.35	18.10
					0.30	20.55	20.25	19.39	20.65
1.02	3.20	0.08	0.10	4.40	0.45	15.60	15.15	17.84	20.40
1.28	3.84	0.00	0.00	5.12	0.80	10.95	10.15	4.45	5.50
1.34	2.00	2.00	0.00	5.34	0.95	11.35	10.40	2.99	6.14
1.08	4.80	0.16	0.00	6.04	0.25	10.48	10.23	3.81	5.34
0.76	4.32	0.40	0.36	5.84	0.15	10.20	10.05	7.04	8.69
1.08	3.52	0.40	0.14	5.14	0.30	11.15	10.85	8.39	11.24
0.54	1.68	2.00	2.26	6.48	0.15	3.55	3.40	0.85	5.63
0.42	0.80	2.00	2.90	6.12	0.10	3.00	2.90	0.25	6.38
0.22	5.44	0.40	0.14	6.20	0.15	9.28	9.13	6.25	8.12

[33] Magnesium: Guaranteed, 1.20%; found, 2.59%.

[34] Magnesium: Guaranteed, 1.20%; found, 1.85%.

TABLE 5.

ANALYSES OF MIXED FERTILIZERS

Station No.	Manufacturer and brand	Place of Sampling
6906[35]	Old Fox Brand 6-10-10 1.2 mag.	Hazardville
6735[1]	Old Fox Brand 7-7-7	Storrs
6909	Old Fox Brand 7-7-7	Hazardville
6370	Old Fox 8-6-2 Turf Food	Hazardville
6905[36]	Old Fox Brand 8-10-10 1.2 mag.	Hazardville
6366	Old Fox Brand 8-16-16	Hazardville
6911	Old Fox Brand 10-6-4	Hazardville
6923	Old Fox Brand 10-6-4	Windsor Locks
6719	Old Fox 10-6-4 Turf Food 50% of Nitrogen Derived from Urea-Form (75% Organic Nitrogen)	Willimantic
6907	Old Fox Brand 10-10-10	Hazardville
6718	Old Fox Brand No Pest Turf Food 8-6-2	Willimantic
	PERK-UP PRODUCTS CO. South Deerfield, Mass.	
6334	Perk-Up Lawn Food 10-6-4	Willimantic
6313	Perk-Up Plant Food 5-10-5	Southington
	ROBERT B. PETERS CO., INC. Allentown, Pa.	
6694	Peters Carnation Special 25-5-20 Fertilizer	Cromwell
6692	Peters General Purpose 20-20-20 Fertilizer	Cromwell
6693	Peters Maryland Special 25-10-10 Fertilizer	Cromwell
6695	Peters 20-5-30 Fertilizer	Cromwell
	PLANT PRODUCTS CORP. Blue Point, L. I., N. Y.	
6696[1]	Finest Quality Plant Food Water Soluble 32-10-2	Portland

~~~ Indicates deficiencies

[1] State purchase.
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TABLE 5.

CONTAINING NITROGEN, PHOSPHORIC ACID, AND POTASH

Nitrogen, per cent					Phosphoric acid per cent			Potash, per cent	
Nitrate	Ammoniacal	Water-soluble organic	Water-insoluble	Total	Citrate-insoluble	Total	So-called "available"	As muriate	Total
0.76	4.96	0.32	0.36	6.40	0.10	10.80	10.70	8.34	10.40
1.04	6.08	0.00	0.00	7.12	0.25	13.77	13.52	5.92	8.05
0.60	6.08	0.40	0.00	7.08	0.10	7.12	7.02	3.41	7.06
0.46	4.40	1.44	1.60	7.90	0.24	6.90	6.66	1.43	2.06
0.76	6.88	0.08	0.28	8.00	0.25	12.00	11.75	3.20	10.19
1.86	6.00	0.16	0.00	8.02	0.55	17.50	16.95	11.30	16.38
0.94	10.00	0.00	0.14	11.08	0.15	6.88	6.73	4.14	4.33
0.64	9.60	0.22	0.10	10.56	0.15	7.00	6.85	3.37	4.30
1.44	3.28	1.20	4.16	10.08	0.70	7.05	6.35	4.33	4.55
1.38	7.68	0.44	0.10	9.60	0.20	10.88	10.68	8.30	10.44
1.04	4.24	1.76	0.96	8.00	0.55	6.85	6.30	1.75	2.22
0.00	8.24	1.76	0.24	10.24	0.25	7.75	7.50	2.93	4.21
0.00	3.76	1.52	0.32	5.60	0.35	9.90	9.55	4.49	5.87
6.40	1.92	18.24	0.00	26.56	0.10	6.47	6.37	0.00	20.26
5.60	4.08	10.00	0.00	19.68	0.05	21.65	21.60	0.00	18.16
4.00	2.54	24.90	0.00	31.44	0.10	11.12	11.02	0.00	10.51
9.36	1.28	9.76	0.00	20.40	0.05	5.42	5.37	0.00	30.48
3.44	3.68	25.44	0.00	32.56	0.20	10.20	10.00	1.58	2.31

[35] Magnesium: Guaranteed, 1.20%; found, 1.31%.

[36] Magnesium: Guaranteed, 1.20%; found, 1.87%.

TABLE 5.

ANALYSES OF MIXED FERTILIZERS

Station No.	Manufacturer and brand	Place of Sampling
	THE FRANK S. PLATT CO. Branford, Conn.	
6241	Platt's Hi-Organic Lawn Fertilizer 10-5-5	West Haven
	RA-PID-GRO CORP., Dansville, N. Y.	
6630[1]	Ra-Pid-Gro 23-21-17	Middletown
	RENZULLI BROS. GARDEN CENTER Norwalk, Conn.	
6653	Renzulli Bros. Lawn Food 10-6-4	Norwalk
	O. M. SCOTT & SONS CO. Marysville, Ohio	
6473	Dawn 16-11-13	Greenwich
6344	Turf Builder 20-10-5	Manchester
	SEABOARD SEED CO. Philadelphia, Pa.	
6819	Seaboard's Complete Lawn & Plant Food 20-10-5	North Haven
6727	Seaboard's Lawn Feeding Weed Killer 10-6-4	Norwich
	SEARS, ROEBUCK & CO. Chicago, Ill.	
6768	Cross Country Economy Fertilizer 5-10-5	Portland
6352	Cross Country Lawn Food 5-5-5	Manchester
6248	Cross Country Lawn Quick Green 10-6-4	Hamden
6868	Cross Country Merion Bluegrass Lawn Food 20-10-5	New London

~~~ Indicates deficiencies.
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TABLE 5.

CONTAINING NITROGEN, PHOSPHORIC ACID, AND POTASH

Nitrogen, per cent					Phosphoric acid, per cent			Potash, per cent	
Nitrate	Ammoniacal	Water-soluble organic	Water-insoluble	Total	Citrate-insoluble	Total	So-called "available"	As muriate	Total
0.16	5.12	4.48	1.24	11.00	0.20	6.27	6.07	4.41	5.16
4.28	4.32	15.20	0.00	23.80	0.05	19.20	19.15		17.00
0.62	4.96	2.16	2.26	10.00	0.45	7.42	6.97	3.40	4.55
0.00	1.28	10.72	4.40	16.40	0.85	11.80	10.95	12.38	13.56
0.38	1.20	10.72	8.42	20.72	0.46	9.82	9.36	4.45	5.22
0.00	3.52	15.84	1.92	21.28	0.20	12.02	11.82	0.36	5.00
0.26	3.60	2.40	3.74	10.00	0.75	6.75	6.00	2.23	4.68
0.00	3.68	1.44	0.20	5.32	0.50	11.50	11.00	4.74	5.03
0.36	0.36	0.28	4.24	5.24	1.10	7.50	6.40	0.73	1.17
0.14	9.52	1.04	0.18	10.88	0.15	6.85	6.70	3.80	4.12
0.76	4.80	12.48	3.08	21.12	0.25	12.12	11.87	3.53	5.07

[1] State purchase.

TABLE 5.

ANALYSES OF MIXED FERTILIZERS

Station No.	Manufacturer and brand	Place of Sampling
6866	Cross Country Organic Lawn Food with Crabgrass Plant Killer 5-5-0	Waterford
6865	Cross Country Organic Lawn Food with Weed Killer 5-5-5	Waterford
6351	Cross Country Plant Food 5-10-5	Manchester
	M. L. SHOEMAKER, DIV. WILSON & CO., Philadelphia, Pa.	
6926	M. L. Shoemaker's "Swift-Sure" 4-10-0	West Suffield
	THE STANFORD SEED CO. Buffalo, N. Y	
6697	Stanford Lawn & Plant Food 20-10-5	Danielson
6686	Stanford Weed & Feed 10-6-4 Plus 1% 2-4, D	Danielson
	STOP & SHOP, INC. West Hartford, Conn.	
6337	Green Carpet Lawn Food 12-5-7	Willimantic
6336	Green Carpet Plant Food 8-12-6	Willimantic
	SWIFT & CO., AGRICHEM DIVISION New Haven, Conn.	
6467	All Purpose Vigoro 6-10-4	Middletown
6806	Golden Vigoro Lawn Food 12-5-7	Wethersfield
6355	Golden Vigoro Lawn Food with End-O-Pest 12-5-7	Manchester
6820	Pink Vigoro 8-12-6	Middletown

~~~ Indicates deficiencies.
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TABLE 5.

CONTAINING NITROGEN, PHOSPHORIC ACID, AND POTASH

Nitrogen, per cent					Phosphoric acid, per cent			Potash, per cent	
Nitrate	Ammoniacal	Water-soluble organic	Water insoluble	Total	Citrate-insoluble	Total	So-called "available	As muriate	Total
0.30	0.16	0.96	3.86	5.28	1.30	6.30	5.00		
0.30	0.24	0.40	4.50	5.44	1.25	5.95	4.70	0.57	1.30
1.22	4.00	0.00	0.30	5.52	0.45	10.62	10.17	5.13	5.34
0.68	2.08	0.64	0.72	4.12	1.80	12.84	11.04		
0.42	4.00	14.56	0.14	19.12	0.15	12.52	12.37	0.00	6.31
0.00	5.52	5.86	0.00	11.38	0.10	7.60	7.50	5.95	6.86
0.54	10.40	0.80	0.54	12.28	0.30	5.55	5.25	6.16	7.06
1.10	5.60	0.80	0.58	8.08	1.20	13.00	11.80	5.75	6.28
0.86	4.88	0.08	0.18	6.00	0.27	11.40	11.13	3.33	4.08
0.00	1.28	6.72	4.48	12.48	0.25	5.57	5.32	0.36	7.03
0.30	1.48	4.60	6.62	13.00	0.70	6.15	5.45	0.52	7.20
0.58	5.68	1.04	0.36	7.66	0.75	11.77	11.02	4.18	6.01

TABLE 5.

ANALYSES OF MIXED FERTILIZERS

Station No.	Manufacturer and brand	Place of Sampling
	THOMPSONVILLE GARDEN CENTER Thompsonville, Conn.	
6575	Thompsonville Garden Center 5-10-5	Thompsonville
6574	Thompsonville Garden Center 20-6-4	Thompsonville
	UNEXCELLED CHEMICAL CORP. BENNETT & CLAYTON DIV. Cranbury, N.J.	
6842	General Green 20-10-5	Stratford
6838	Lawn & Garden Food 5-10-5	Fairfield
6662	Lawn & Garden Food 10-6-4	Fairfield
6835	Lawn & Garden Food 10-6-4 (50% Organic Nitrogen)	Fairfield
6602	Lawn Life 20-10-5	Darien
6747	New Garden Crest Lawn & Garden Fertilizer 5-10-5	Derby
6376	New Garden Crest Lawn & Garden Fertilizer 10-6-4	Thompsonville
6375	New Garden Crest Lawn & Garden Fertilizer (25% Organic Nitrogen) 10-6-4	Thompsonville
6497	Princeton Park 5-10-5 Lawn & Garden Fertilizer	Old Greenwich
	UNIVERSAL CHEMICAL CO., INC. West Lynn, Mass.	
6812	Electra Plant Food 5-10-3	Cromwell
6935	Electra Plant Food 5-10-3	Portland
	VAUGHAN'S SEED CO. New York, N.Y.	
6471	Vaughan's One Shot Lawn Food 20-5-5	Greenwich

~~~ Indicates deficiencies.
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TABLE 5.

CONTAINING NITROGEN, PHOSPHORIC ACID, AND POTASH

Nitrogen, per cent					Phosphoric acid, per cent			Potash, per cent	
Nitrate	Ammoniacal	Water-soluble organic	Water-insoluble	Total	Citrate-insoluble	Total	So-called "available"	As muriate	Total
1.28	3.68	0.16	0.00	5.12	0.65	11.60	10.95	2.84	5.22
1.80	4.80	6.88	3.16	16.64	1.20	10.10	8.90	4.83	5.97
1.96	4.96	7.84	5.32	20.08	0.25	11.77	11.52	4.48	8.45
0.94	3.84	0.40	0.14	5.32	0.65	11.35	10.70	2.99	5.03
1.28	6.56	1.76	0.42	10.02	0.55	7.70	7.15	3.24	4.78
0.34	4.74	3.98	0.94	10.00	0.65	7.70	7.05	3.65	4.36
1.88	4.80	7.36	5.96	20.00	0.50	11.80	11.30	3.86	5.16
1.14	4.40	0.16	0.14	5.84	0.55	10.75	10.20	4.91	6.01
0.72	7.40	0.20	0.12	8.44	0.45	8.72	8.27	3.88	4.59
1.12	3.40	5.08	0.40	10.00	0.60	6.75	6.15	2.96	4.75
0.70	4.40	0.64	1.54	7.28	0.60	10.12	9.52	5.62	6.35
0.22	2.40	0.72	2.02	5.36	0.35	10.52	10.17	3.25	3.44
0.50	2.48	0.40	1.86	5.24	0.35	11.80	11.45	3.29	3.29
0.60	4.16	6.88	8.08	19.72	0.20	4.50	4.30	5.25	5.22

TABLE 5.

ANALYSES OF MIXED FERTILIZERS

Station No.	Manufacturer and brand	Place of Sampling
	WALGREN TREE EXPERTS, INC. West Hartford, Conn.	
6767	Walgren Tree Food 8-6-2	Portland
	WALKER-GORDON LABORATORY CO. Plainsboro, N. J.	
6486	Bovert 6-4-2	Greenwich
	OSCAR F. WARNER, Waterbury, Conn.	
6762	Warner's Grubedizer 8-6-4	Waterbury
6763	Warner's Lawn Food 8-6-4	Waterbury
6761	Warner's Tree Food 12-6-4	Waterbury
	WESTERN AUTO SUPPLY CO. Kansas City, Mo.	
6667	Western Auto Revelation 20-10-5	Bridgeport
	WHITNEY SEED CO., INC. Buffalo, N. Y.	
6753	Whitney's Vital Brand Lawn Fert. 20-10-5	New Milford
	WIRTHMORE STORES, INC. Waltham, Mass.	
6239	Wirthmore 10-5-5 Organo	West Haven
	GARFIELD WILLIAMSON, INC. Jersey City, N. J.	
6648	Wonderlawn Lawn Food 10-6-4	Bridgeport
6647	Wonderlawn Lawn Food Plus Soil Conditioner Plus Acid Reducer 10-6-4	Bridgeport

~~~ Indicates deficiencies.
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TABLE 5.

CONTAINING NITROGEN, PHOSPHORIC ACID, AND POTASH

Nitrogen, per cent					Phosphoric acid, per cent			Potash, per cent	
Nitrate	Ammoniacal	Water-soluble organic	Water-insoluble	Total	Citrate-insoluble	Total	So-called "available"	As muriate	Total
0.20	3.84	3.12	0.84	8.00	0.50	8.25	7.75	5.22	5.22
0.28	5.68	0.32	0.84	7.12	0.15	4.75	4.60	0.61	2.31
0.00	4.40	2.34	1.74	8.48	0.70	7.55	6.85	5.13	5.28
0.68	4.48	2.16	0.68	8.00	0.45	6.57	6.12	3.85	4.08
0.00	4.48	6.56	1.16	12.20	0.35	6.50	6.15	4.98	5.10
0.48	3.04	16.48	0.00	20.00	0.70	10.70	10.00	6.44	7.71
0.00	4.64	12.34	3.68	20.66	0.50	12.00	11.50	3.04	4.08
0.20	6.08	3.12	1.16	10.56	0.11	5.67	5.56	4.97	5.63
2.68	5.84	0.00	1.00	9.52	0.60	7.70	7.10	3.77	4.02
0.48	2.24	5.84	1.46	10.02	0.75	7.75	7.00	4.41	4.62

TABLE 5.

ANALYSES OF MIXED FERTILIZERS

Station No.	Manufacturer and brand	Place of Sampling
	S. D. WOODRUFF & SONS OF WETHERSFIELD, INC. Wethersfield, Conn.	
6283	Woodruff's Tuf Turf Lawn Fertilizer 20-10-5	Hamden
6680	Woodruff's Tuf Turf Turf Food 10-6-4	North Haven
6802	Woodruff's Tuf Turf Two-for-One 10-6-4	Wethersfield

〰 Indicates deficiencies.

TABLE 5.

CONTAINING NITROGEN, PHOSPHORIC ACID, AND POTASH

Nitrogen, per cent					Phosphoric acid, per cent			Potash, per cent	
Nitrate	Ammoniacal	Water-soluble organic	Water-insoluble	Total	Citrate-insoluble	Total	So-called "available"	As muriate	Total
0.00	5.52	12.32	3.44	21.28	0.21	11.42	11.21	4.41	5.19
0.94	3.92	4.08	1.10	10.04	0.50	7.55	7.05	4.06	5.10
0.28	4.24	4.88	1.80	11.20	0.30	6.04	5.74	3.11	4.05

TABLE 6.

ANALYSES OF SHEEP MANURE, ETC.

Station No.	Manufacturer, brand and dealer
6827	Armour Cattle Manure. Armour Agricultural Chemical Co., Atlanta, Ga. Sampled at G. E. Madison Stores, Southington.
6315	Armour Sheep Manure and Inert Matter. Armour Agricultural Chemical Co., Atlanta, Ga. Sampled at G. E. Madison Stores, Southington.
6243	Corenco Sheep Manure with Inert Matter. Consolidated Rendering Co., Boston 10, Mass. Sampled at New Haven Rendering Co., West Haven.
6499	Davey Shredded Cattle Manure. The Davey Tree Expert Co., Kent, Ohio. Sampled at The Davey Tree Expert Co., Old Greenwich.
6342	Fertal-Gro (Dehydrated) Cow Manure. Eastern Dehydrating Co., Lexington, N. C. Sampled at Vittner's Garden Center, Manchester.
6856	Hoffman Dehydrated Cow Manure. A. H. Hoffman, Inc., Landisville, Pa. Sampled at Barkers, Inc., Orange.
6855	Hoffman Dehydrated Sheep Manure. A. H. Hoffman, Inc., Landisville, Pa. Sampled at Barkers, Inc., Orange.
6649	H-H Cow Manure. The Hubbard-Hall Chemical Co., Waterbury, Conn. Sampled at Willis Distributors, Bridgeport.
6774	H-H Sheep Manure & Inert Matter. The Hubbard-Hall Chemical Co., Waterbury, Conn. Sampled at The Hubbard-Hall Chemical Co., Portland.
6581	Organure. McNair Farms, Laurinburg, N. C. Sampled at Thompsonville Garden Center, Thompsonville.

~~~ Indicates deficiencies.
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TABLE 6.

ANALYSES OF SHEEP MANURE, ETC.

Nitrogen, per cent		Phosphoric acid, per cent				Potash, per cent		Sand, per cent
Total found	Total guaranteed	Citrate-insoluble	Total found	Total guaranteed	So-called "available" found	Total found	Total guaranteed	
1.20	2.00	0.60	1.60		1.00[1]	2.62	2.00	50.24
2.40	1.25		1.52	1.00		2.56	2.00	27.58
1.92	1.25		1.45	1.00		2.56	2.00	18.21
3.40	2.00		5.82	1.00		1.99	1.00	1.04
2.04	2.00	0.07	0.95		0.88[1]	9.36	7.00	4.12
2.12	2.00	0.40	2.35		1.95[1]	2.53	1.00	8.69
2.16	1.00	0.40	1.65		1.25[1]	0.35	2.00	14.06
1.72	1.50	0.40	1.77		1.37[1]	3.10	1.00	
1.64	1.25	0.45	2.04		1.59[1]	3.13	1.00	17.79
2.00	2.00	0.35	1.35		1.00[1]	2.62	2.00	7.85

[1] Guaranteed, 1.00%.

TABLE 6.

ANALYSES OF SHEEP MANURE, ETC.

Station No.	Manufacturer, brand and dealer
6384	Longhorn Brand Cattle Manure. Natural Plant Food Co., Oklahoma City, Okla. Sampled at Adams-Brainard, Inc., Thompsonville.
6385	Ramshorn Brand Sheep Manure. Natural Plant Food Co., Oklahoma City, Okla. Sampled at Adams-Brainard, Inc., Thompsonville.
6410	Fertie Cattle Manure Compost. Organic Compost Corp., Germantown, Wis. Sampled at J. M. Fields Dept. Store, E. Hartford.
6583	Gardener's Cow Manure Compost. Organic Compost Corp., Oxford, Pa. Sampled at A & P Super Market, Thompsonville.
6496	Gardener's Sheep Manure Compost. Organic Compost Corp., Oxford, Pa. Sampled at A & P Food Stores, Old Greenwich.
6249	Cross Country Organic Cattle Manure Compost. Sears, Roebuck & Co., Chicago 7, Ill. Sampled at Sears, Roebuck & Co., Hamden.
6867	Cross Country Organic Sheep Manure Compost. Sears, Roebuck & Co., Chicago 7, Ill. Sampled at Sears Service Center, Waterford.
6306	Bovung. Walker-Gordon Laboratory, Plainsboro, N. J. Sampled at The Hugh Reynolds Grain & Feed Co., Inc., New Britain.

~~~ Indicates deficiencies.

[1] Guaranteed, 1.00%.
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TABLE 6.

ANALYSES OF SHEEP MANURE, ETC.

Nitrogen, per cent		Phosphoric acid, per cent				Potash, per cent		Sand, per cent
Total found	Total guaranteed	Citrate-insoluble	Total found	Total guaranteed	So-called "available" found	Total found	Total guaranteed	
1.80	2.00	0.55	1.65		1.10[1]	3.23	2.00	16.14
2.00	2.00	0.45	1.75		1.30[1]	2.62	2.00	24.79
0.92	0.50	0.45	0.80		0.35[2]	0.85	0.50	38.96
1.00	0.50		0.97	0.50		0.85	0.50	38.58
0.88	0.50		1.02	0.50		0.82	0.50	37.04
0.92	0.50		0.70	0.50		0.59	0.50	40.79
1.04	0.50	0.20	1.10		0.90[2]	1.70	0.50	38.54
2.24	2.00	0.20	2.02		1.82[1]	2.56	2.00	1.15

[2] Guaranteed, 0.50%.

TABLE 7.

ANALYSES OF SMALL PACKAGE FERTILIZERS

Station No.	Manufacturer and brand	Place of Sampling
	AGRICULTURAL PRODUCTS CO., INC., West Kingston, R. I.	
6312	APCO All Purpose Plant Food 5-10-5	New Britain
6311	APCO Special Rose Food 5-12-4	New Britain
	AMERICAN AGRICULTURAL CHEMICAL CO., New York, N. Y.	
6403	Agrico Plant Starter 10-40-10	Rockville
	ARMOUR AGRICULTURAL CHEMICAL CO., Atlanta, Ga.	
6317[1]	Armour Steamed Bone Meal 2.3-23-0	Southington
6590	Armour Vertagreen All Soluble Plant Starter 10-55-10	East Windsor
6316	Armour Vertagreen for Acid-Loving Plants 5-10-10	Southington
6591	Armour Vertagreen for Tomatoes 6-12-12	East Windsor
	ATLAS FISH FERTILIZER CO. San Francisco, Cal.	
6307	Atlas Fish Emulsion Fertilizer 5-1-1	New Britain
	BOYLE-MIDWAY, INC. Cranford, N. J.	
6821	Heller-Gro Complete Plant Food 15-15-15	Middletown
	CALIFORNIA SPRAY-CHEMICAL CORP., Richmond, Cal.	
6398	Orth-Gro Liquid Plant Food 15-5-5	Manchester

〰 Indicates deficiencies.

TABLE 7.

ANALYSES OF SMALL PACKAGE FERTILIZERS

Nitrogen, per cent					Phosphoric acid, per cent			Potash, per cent	
Nitrate	Ammoniacal	Water-soluble organic	Water-insoluble	Total	Citrate-insoluble	Total	So-called "available"	As muriate	Total
0.26	4.96	0.16	0.26	5.64	0.42	10.50	10.08	3.08	5.07
0.00	3.76	0.30	0.94	5.00	0.47	14.20	13.73	4.50	5.10
2.44	7.44	0.00	0.00	9.88	0.05	38.40	38.35	0.44	10.70
				2.76		26.40			
0.00	10.56	0.00	0.00	10.56	0.10	56.60	56.50		11.85
0.36	4.04	0.36	1.16	5.92	0.60	9.65	9.05	9.51	11.93
0.34	5.36	0.24	0.14	6.08	1.10	14.32	13.22	6.40	9.72
0.82	0.88	3.20	0.70	5.60	0.00	1.00	1.00	1.27	1.27
4.72	3.68	8.00	0.00	16.40	0.05	17.95	17.90		15.72
0.00	0.64	14.48	0.00	15.12	0.00	5.17	5.17		6.45

[1] Mechanical Analysis: Fine, 64.0%; coarse, 36.0%.

TABLE 7.

ANALYSES OF SMALL PACKAGE FERTILIZERS

Station No.	Manufacturer and brand	Place of Sampling
	CLINTON NURSERIES, Clinton, Conn.	
6600	New Era African Violet Food 5-12-9	Stamford
6488	New Era All Purpose Plant Food 7-15-8	Greenwich
6599	New Era Gro Plant Food Tablets 10-15-12	Stamford
6430	New Era Liquid Plant Food 8-12-8	West Hartford
6254	New Era Rose Food 10-20-10	Hamden
	CONSOLIDATED RENDERING CO. Boston, Mass.	
6404	Corenco Home Garden Fertilizer 5-10-5	Rockville
	CO-OPERATIVE G. L. F. EXCHANGE, INC., Ithaca, N. Y.	
6760	Squire Applegate GroLeaf Evergreen Plant Food 8-4-4	Torrington
6393	Squire Applegate GroLeaf Rose Food 5-10-5	Buckland
6714	Squire Applegate GroLeaf Steamed Bone Meal 2.3-24-0	Putnam
6390	Squire Applegate GroLeaf Sulphate of Ammonia 20.5-0-0	Buckland
	E. I. du PONT de NEMOURS & CO., INC., Wilmington, Del.	
6299	DuPont Rose Food 8-8-8	Berlin
	EASTERN STATES FARMERS' EXCHANGE, INC. West Springfield, Mass.	
6264	Eastern States Start-N-Gro 16-32-16	North Haven

~~~ Indicates deficiencies.
~~~

TABLE 7.

ANALYSES OF SMALL PACKAGE FERTILIZERS

Nitrogen, per cent					Phosphoric acid, per cent			Potash, per cent	
Nitrate	Ammoniacal	Water-soluble organic	Water-insoluble	Total	Citrate-insoluble	Total	So-called "available"	As muriate	Total
2.72	3.04	0.40	0.00	6.24	0.15	13.05	12.90		10.30
2.68	3.20	2.08	0.00	7.96	0.15	16.40	16.25		8.49
3.96	6.16	0.24	0.00	10.36	0.10	17.15	17.05		12.90
0.00	4.32	4.52	0.00	8.84	0.00	13.47	13.47	6.25	8.53
2.58	3.44	4.56	0.10	10.68	0.05	21.10	21.05		11.05
1.40	3.60	0.16	0.12	5.28	0.30	10.35	10.05	3.49	5.00
1.22	3.28	0.08	3.42	8.00	0.10	5.45	5.35	4.04	4.59
1.46	3.60	0.32	0.14	5.52	0.05	10.05	10.00	5.42	6.31
				2.80		26.40			
				21.28					
0.00	0.44	1.80	4.88	7.12	0.35	8.80	8.45	9.36	9.36
6.00	9.28	1.68	0.00	16.96	0.05	32.20	32.15		16.56

TABLE 7.

ANALYSES OF SMALL PACKAGE FERTILIZERS

Station No.	Manufacturer and brand	Place of Sampling
	THE ESPOMA CO., Millville, N. J.	
6596	Espoma Organic 3-2-1	Stamford
	FAESY & BESTHOFF, INC. New York, N. Y.	
6836[2]	F & B Azalea, Camellia, Rhododendron Food 5-10-10	Fairfield
6387	F & B Cottonseed Meal 6-1-1	Thompsonville
	FIRST NATIONAL STORES, INC. East Hartford, Conn.	
6489	Emerald Green Evergreen Food 4-10-4	Greenwich
6643	Emerald Green Plant Food 8-12-6	New Britain
6517	Emerald Green Rose Food 7-10-5	East Hartford
	GEIGY AGRICULTURAL CHEMICALS Ardsley, N. Y	
6586[3]	Sequestrene 330 Fe Iron Chelate	Thompsonville
	GOULARD & OLENA, INC. Skillman, N. J.	
6660[4]	G & O Bone Meal 2.4-20-0	Norwalk
6666	G & O Bulb Food 5-6-15	Fairfield
6617	G & O Dried Blood 11-0-0	Darien
6409	G & O Evergreen Tree & Shrub Food 9-7-4	Rockville
6659	G & O Prizegro for Gardens 5-10-5	Norwalk

~~~ Indicates deficiencies.

[2] Iron: Guaranteed, 0.15%; found, 1.30%.
~~~

TABLE 7.

ANALYSES OF SMALL PACKAGE FERTILIZERS

Nitrogen, per cent					Phosphoric acid, per cent			Potash, per cent	
Nitrate	Ammoniacal	Water-soluble organic	Water-insoluble	Total	Citrate-insoluble	Total	So-called "available"	As muriate	Total
				4.00	0.50	3.95	3.45	0.54	2.34
0.84	2.24	1.06	1.10	5.24	0.60	11.20	10.60	10.51	10.51
				6.80	0.25	2.90	2.65		1.99
0.15	2.16	1.04	1.09	4.44	0.40	10.85	10.45	3.65	4.21
1.20	2.80	2.24	0.72	6.96	0.52	10.77	10.25	5.27	6.04
0.14	3.84	1.68	0.94	6.60	0.10	8.82	8.72	1.41	5.44
				3.32		24.72			
0.72	5.04	0.32	1.00	7.08	0.75	9.90	9.15	14.83	15.18
				10.52					
0.46	6.72	0.00	1.86	9.04	0.40	7.90	7.50	5.19	5.50
0.86	2.80	1.52	0.74	5.92	0.75	11.20	10.45	5.37	5.60

[3] Iron: Guaranteed, 10.00%; found, 10.69%.

[4] Mechanical Analysis: Fine, 85.00%; coarse, 15.00%.

TABLE 7.

ANALYSES OF SMALL PACKAGE FERTILIZERS

Station No.	Manufacturer and brand	Place of Sampling
	THE CHARLES C. HART SEED CO. Wethersfield, Conn.	
6419	Hart's Rose Food 7-7-7	West Hartford
	A. H. HOFFMAN, INC. Landisville, Pa.	
6874	Hoffman Azalea & Evergreen Food 4-6-10	New London
6382[5]	Hoffman Dehydrated Cow Manure 2-1-1	Thompsonville
6253[6]	Hoffman Dehydrated Sheep Manure 1-1-2	Hamden
6857	Hoffman Rose Food 5-10-5	Milford
6823	Hoffman Sulphate of Ammonia 20-0-0	Wallingford
	THE HUBBARD-HALL CHEMICAL CO. Waterbury, Conn.	
6462[7]	H-H Aluminum Sulphate	Meriden
6665	H-H Bulb Food 7-10-4	Fairfield
6465[8]	H-H Cow Manure 1.50-1-1	Meriden
6463	H-H Plant Food 5-10-5	Meriden
6357	H-H Rose Food 7-10-5	Manchester
	HYDROPONIC CHEMICAL CO., INC. Copley, Ohio	
6277	Hyponex 7-6-19 All Purpose Plant Food	Cheshire
	THE HY-TROUS CORP. Boston, Mass.	
6669	Hy-Trous Liquid Fertilizer 2-12-4	Bridgeport
6388	Hy-Trous Liquid Fertilizer 4-8-4	Thompsonville

~~~ Indicates deficiencies.

[5] Sand: 22.92%.

[6] Sand: 16.64%.
~~~

TABLE 7.

ANALYSES OF SMALL PACKAGE FERTILIZERS

Nitrogen, per cent					Phosphoric acid, per cent			Potash, per cent	
Nitrate	Ammoniacal	Water-soluble organic	Water-insoluble	Total	Citrate-insoluble	Total	So-called "available"	As muriate	Total
0.00	5.20	0.88	1.26	7.34	0.30	7.55	7.25	4.70	6.48
0.40	3.12	0.48	0.96	4.96	0.50	11.35	10.85	8.69	10.63
				2.08	0.27	1.50	1.23		2.62
				2.12	0.25	1.40	1.15		3.34
0.00	3.84	0.56	1.50	5.90	0.20	11.00	10.80	3.76	5.31
				20.80					
0.50	3.28	2.88	1.22	7.88	0.15	11.27	11.12	0.77	3.73
				1.80	0.50	1.60	1.10		3.38
0.18	2.64	1.20	1.30	5.32	0.70	12.00	11.30	5.23	5.31
0.00	3.60	3.36	1.12	8.08	0.12	8.80	8.68	0.20	5.22
5.52	1.52	0.00	0.00	7.04	0.10	7.50	7.40		19.65
0.96	1.28	0.96	0.00	3.20	0.00	13.05	13.05		5.13
1.48	2.04	0.92	0.00	4.44	0.05	8.48	8.43		5.03

[7] Aluminum: Guaranteed, 9.00%; found, 9.72%.

[8] Sand: 15.59%.

TABLE 7.

ANALYSIS OF SMALL PACKAGE FERTILIZERS

Station No.	Manufacturer and brand	Place of Sampling
	LEBANON CHEMICAL CORP. Lebanon, Pa.	
6413[9]	Lebanon Bone Meal 2.3-15-0	West Hartford
6414	Lebanon Rose Food 7-7-7	West Hartford
	MILLER CHEMICAL & FERTILIZER CORP., Baltimore, Md.	
6304[10,11]	Miller Azalea Food 8-8-8	Kensington
	OLIN MATHIESON CHEMICAL CORP. FORWARD HOUSE DIVISION New York, N. Y.	
6252	Plantrons Complete Plant Food 12-24-12	Hamden
	OLD FOX AGRICULTURAL SALES, INC., East Providence, R. I.	
6826	Old Fox Brand Rose Food 6-10-6	Plantsville
	PARKS-BARNES, INC. Hermosa Beach, Cal.	
6418	Black Magic African Violet Blossom Booster 4-10-10	West Hartford
6159	Black Magic Fish-ilizer Brand 10-5-5	Bridgeport
	PLANTABBS CORP., Baltimore, Md.	
6597	Plantabbs 11-15-20	Stamford
6668	Plantabbs Liquid Plant Food 10-10-10	Bridgeport

~~~ Indicates deficiencies.

[9] Mechanical Analysis: Fine, 59.00%; coarse, 41.00%.
~~~

TABLE 7.

ANALYSES OF SMALL PACKAGE FERTILIZERS

Nitrogen, per cent					Phosphoric acid, per cent			Potash, per cent	
Nitrate	Ammoniacal	Water-soluble organic	Water-insoluble	Total	Citrate-insoluble	Total	So-called "available"	As muriate	Total
				2.22	9.10	26.35	17.25		
0.52	4.80	0.56	1.20	7.08	0.50	7.75	7.25	7.05	7.84
0.96	6.16	0.88	0.32	8.32	0.30	8.97	8.67	8.42	9.22
0.00	11.36	0.50	0.14	12.00	0.00	25.20	25.20	11.38	12.31
0.00	5.28	0.52	0.88	6.68	0.40	10.65	10.25	5.24	6.21
0.00	0.24	4.40	0.00	4.64	0.00	11.03	11.03		10.01
0.00	0.00	5.00	4.00	9.00	0.92	9.70	8.78	0.29	5.44
7.88	3.36	0.24	0.00	11.48	0.15	18.65	18.50		27.86
0.00	0.68	10.00	0.00	10.68	0.00	10.80	10.80		10.37

[10] Magnesium: Guaranteed, 0.12%; found, 0.73%.

[11] Iron: Guaranteed, 0.036%; found, 0.59%.

TABLE 7.

ANALYSES OF SMALL PACKAGE FERTILIZERS

Station No.	Manufacturer and brand	Place of Sampling
	PLANTLAND ON THE PARKWAY Manchester, Conn	
6397[12]	Bone Meal Fertilizer 2-22-0	Manchester
	RA-PID-GRO CORP., Dansville, N. Y.	
6278	Ra-Pid-Gro 23-21-17	Cheshire
	O. M. SCOTT & SONS CO. Marysville, Ohio	
6350	Scott's Dawn 16-11-13	Manchester
	SEARS, ROEBUCK & CO. Chicago, Ill.	
6872	Cross Country Bulb Food 4-12-8	New London
6251	Cross Country Evergreen Food 10-6-4	Hamden
6426	Cross Country Plant Food 5-10-5	West Hartford
6353	Cross Country Rose Food 5-10-5	Manchester
	STERN'S GARDEN PRODUCTS, INC. Geneva, N. Y.	
6281	Stern's Miracid 30-10-10	North Haven
6824	Stern's Miracle-Gro for Roses 14-28-18	Wallingford
6411	Stern's Miracle-Gro Water Soluble Plant Food 15-30-15	East Hartford
	STOCKDALE FERTILIZER CO., INC. Morris, Ill.	
6429	Ovene Sheep Sticks 2-1-2	West Hartford

~~~ Indicates deficiencies.
~~~

TABLE 7.

ANALYSES OF SMALL PACKAGE FERTILIZERS

Nitrogen, per cent					Phosphoric acid, per cent			Potash, per cent	
Nitrate	Ammoniacal	Water-soluble organic	Water-insoluble	Total	Citrate-insoluble	Total	So-called "available"	As muriate	Total
				0.16		24.16			
5.54	3.76	14.38	0.00	23.68	0.05	18.80	18.75		17.60
0.62	1.60	10.24	4.24	16.70	0.42	12.00	11.58	11.20	13.50
0.60	3.28	0.40	0.84	5.12	0.90	12.56	11.66	7.22	8.25
0.18	5.04	3.12	1.32	9.66	0.15	6.77	6.62	3.64	4.15
1.08	4.00	0.40	0.00	5.48	0.00	10.10	10.10	5.17	5.66
0.64	4.00	0.48	0.24	5.36	0.40	10.60	10.20	4.09	5.34
0.00	3.68	27.52	0.00	31.20	0.05	10.92	10.87	5.44	10.08
2.64	6.40	4.96	0.00	14.00	0.05	28.15	28.10	9.77	18.80
0.00	7.28	8.16	0.00	15.44	0.05	31.65	31.60	9.31	15.18
				2.64	0.40	3.76	3.36	0.85	2.18

[12] Mechanical Analysis: Fine, 100.00%.

TABLE 7.

ANALYSES OF SMALL PACKAGE FERTILIZERS

Station No.	Manufacturer and brand	Place of Sampling
	SWIFT & CO., AGRICULTURAL CHEMICAL DIV., Chicago, Ill.	
6356	Pink Vigoro 8-12-6	Manchester
6333	Vigoro Complete Rose Food 6-10-4	Willimantic
6298	Vigoro Evergreen Food 6-7-8	Berlin
	SWISS FARMS, INC., Philmont, N. Y.	
6161	Plantdrops Liquid African Violet Food 6-18-6	Bridgeport
6585[13]	Swiss Farms Cow Manure 2-1-1	Thompsonville
6822	Swiss Farms Instant Liq. Plant Food 4-6-4	Middletown
6587[14]	Swiss Farms Steamed Bone Meal 2-20-0	Thompsonville
	THE TREBOR PLANT & SOIL CO. Hartford, Conn.	
6846	Magic-Gro 15-10-5 African Violet Food	Stratford
	WALKER-GORDON LABORATORY CO. Plainsboro, N. J.	
6282[15]	Bovung 2-1-2	North Haven
	WYATT PRODUCTS, INC. Atlanta, Ga.	
6873	Luster Leaf Plant Food 8-8-8	New London

~~~ Indicates deficiencies.

[13] Sand: 6.92%.
~~~

TABLE 7.

ANALYSES OF SMALL PACKAGE FERTILIZERS

Nitrogen, per cent					Phosphoric acid, per cent			Potash, per cent	
Nitrate	Ammoniacal	Water-soluble organic	Water-insoluble	Total	Citrate-insoluble	Total	So-called "available"	As muriate	Total
0.00	5.68	2.82	0.20	8.60	0.20	12.40	12.20	5.92	8.08
0.68	3.04	0.24	1.76	5.72	0.90	11.80	10.90	1.87	4.24
1.16	4.48	0.40	0.20	6.24	0.42	7.42	7.00	7.22	9.14
0.00	0.00	0.00	0.00	6.00	0.00	19.10	19.10	4.09	6.21
				1.68	7.25	11.40	4.15		1.51
0.00	1.68	3.04	0.00	4.72	0.00	8.75	8.75	3.39	4.36
				2.16		28.50			
0.24	4.48	8.48	0.00	13.20	0.00	9.20	9.20	7.14	7.50
				1.94	0.22	1.75	1.53		2.53
0.16	0.48	7.60	0.00	8.24	0.00	8.25	8.25		8.29

[14] Mechanical Analysis: Fine, 54.00%; coarse, 46.00%.

[15] Sand: 1.59%.

TABLE 8.

ANALYSES OF OTHER MISCELLANEOUS MATERIALS

(Figures are in per cent)

Station No.	Material	Total nitrogen	Total phosphoric acid	Citrate insoluble phosphoric acid	Available" phosphoric acid	Water soluble potash	Chlorine	Water	Calcium oxide	Magnesium oxide	Boron
8099	Clinker from wood-burning furnace	0.00	2.90			20.65			high	high	
6928	Cocoa shells	2.88	1.12	0.25	0.87	4.05	0.00				
5583	Compost of sludge, horse manure, bedding and humus	0.88	0.42			0.00		40.28			
6063	Fertilizer[1]										
6064	Fertilizer[2]										
6461	Fertilizer[3]	0.15	0.06	0.00	0.06	0.25				high	
6262	Gray Mer-Made Plant Food 5-5-1[4]	5.48	4.60	0.05	4.55	1.70	1.31				
5196	Grand limestone								30.12	20.50	
6457	Liquid from dairy barn	0.52	0.01			1.01	0.02				
4839	Limestone[5]								0.00	0.00	
6207	Limestone								30.22	20.25	
6208	Limestone								30.56	14.49	
6209	Limestone								30.62	21.40	
7080	Limestone					0.00			high	high	
6544	Nitriding salts[6]	15.52	0.00			36.16			trace	trace	
6160	Peat[7]										

8092	Residue from nitrate of potash solution					45.64					
5893	Trap rock dust	0.04	0.10			0.00[8]				2.52	
7088	Troy Turf	2.40	4.60	0.30	4.30	1.28	0.00				
6713	20 Mule Team Fertilizer Borate-46 (Coarse Mesh)										14.70[9]
7076	Unknown blue powder	8.32	5.20			5.28					
7122	Weathered compost of sludge, horse manure, bedding and humus	0.97	0.54			0.18		43.60			

〰 Indicates deficiencies.

[1] Ammonia nitrogen 0.32 per cent.

[2] Ammonia nitrogen 0.00 per cent.

[3] Nitrate and ammonia nitrogen 0.00 per cent; soluble organic nitrogen 0.15 per cent. Probably talcum.

[4] Nitrate nitrogen 0.00 per cent; ammonia nitrogen 0.56 per cent; soluble organic nitrogen 3.84 per cent; insoluble nitrogen 1.08 per cent.

[5] Essentially sand.

[6] Nitrate nitrogen 15.36 per cent; ammonia nitrogen 0.16 per cent; sodium high.

[7] Trace of gasoline present.

[8] Total potash 0.13 per cent.

[9] Guaranteed 14.3 per cent.

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